

One Dollar

Southern Illinois University

Bulletin

1969/1970 Undergraduate Catalog
Carbondale Campus

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OBJECTIVES OF SOUTHERN ILLINOIS UNIVERSITY

TO EXALT BEAUTY

*In God,
in nature, and
in art;
Teaching how to love the best
but to keep the human touch;*

TO ADVANCE LEARNING

*In all lines of truth
wherever they may lead,
Showing how to think
rather than what to think,
Assisting the powers
of the mind
In their self-development;*

TO FORWARD IDEAS AND IDEALS

*In our democracy,
Inspiring respect for others
as for ourselves,
Ever promoting freedom
with responsibility;*

TO BECOME A CENTER OF ORDER AND LIGHT

*That knowledge may lead
to understanding
And understanding
to wisdom.*

Southern Illinois University *Bulletin*

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Carbondale Campus

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This Issue

of the *Southern Illinois University Bulletin* covers in detail questions concerning the undergraduate program and applies to the Carbondale Campus. It supersedes Volume 9, Number 10.

THE FOLLOWING issues of the *Southern Illinois University Bulletin* may be obtained free from Central Publications, Southern Illinois University, Carbondale, Illinois 62901.

Division of Technical and Adult Education.

Graduate School Catalog (Carbondale or Edwardsville).

Guidelines for Prospective Students (Carbondale or Edwardsville).

Schedule of Classes. Please specify quarter (fall, winter, spring, or summer) and *campus* (Carbondale or Edwardsville).

Student Work and Financial Assistance (Carbondale or Edwardsville).

Undergraduate Catalog. The catalog is available for examination in high school guidance offices and libraries throughout Illinois and in some other states. Copies will be furnished free to educational institutions upon request and to new students upon matriculation. The catalog may be purchased at the University Bookstore for \$1; mail orders should be sent to Central Publications and must include remittance payable to Southern Illinois University.

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Contents

The University Calendar	v
Board of Trustees, Officers of Administration	vi
1 / THE UNIVERSITY AND THE CAMPUS ORGANIZATION	1
The University in Perspective ... 1	
Carbondale Campus ... 1	
Academic and Related Units ... 3	
General Studies Division ... 3	
School of Agriculture ... 3	
School of Business ... 4	
School of Communications ... 4	
College of Education ... 4	
School of Fine Arts ... 5	
School of Home Economics ... 5	
College of Liberal Arts and Sciences ... 6	
School of Technology ... 6	
Division of Technical and Adult Education ... 7	
University Extension Services ... 7	
The Library ... 8	
Special Institutes and Programs ... 8	
Aerospace Studies ... 8	
Black American Studies ... 9	
Center for Management Development ... 9	
Community Development Institute ... 9	
Intercul ... 10	
Labor Institute ... 10	
Latin American Institute ... 10	
President's Scholar Program ... 10	
Transportation Institute ... 11	
Student Services ... 11	
Bus Transportation ... 11	
Center for English as a Second Language ... 12	
Cooperative Clinical Services ... 12	
Counseling and Testing Center ... 12	
Dean of Students Office ... 12	
Financial Assistance ... 12	
Handicapped Student Services ... 13	
Health Service ... 13	
Housing Description and Regulations ... 13	
Housing Business Services ... 13	
Housing Information Office ... 13	
Married Student Housing ... 14	
Off-Campus Housing for Single Students ... 14	
University Housing for Single Students ... 14	
International Student Services ... 14	
National Service Information ... 14	
Placement Service ... 14	
Reading Center ... 15	
Self-Instruction Center ... 15	
Stenographic Service ... 15	
Student Activities ... 15	
University Center ... 15	
2 / ACADEMIC REQUIREMENTS AND PROCEDURES	17
Admission Policies, Requirements, and Procedures ... 17	
Admission of Freshmen ... 17	
Admission of Transfer Students ... 18	
Admission of International Students ... 19	
Admission of Former Students ... 19	
Applying for Admission ... 20	
Documents Required for Admission ... 20	
Orientation, Advisement, Registration ... 21	
Academic Advisement ... 21	
Registration ... 22	
Withdrawal from the University ... 22	
Tuition and Fees ... 23	
Payment and Refunding of Fees ... 24	
Student Residency Regulations ... 24	
Grading System ... 25	
Special Grading System ... 27	
Scholastic Standing ... 27	
Class Standing ... 28	
University Recognition of High Scholastic Achievement ... 28	
Scholastic Program Flexibility for the Student ... 29	
High School Advanced Placement Program ... 29	
General Studies Advanced Standing Program ... 29	
Proficiency Examinations ... 30	
Extension and Correspondence Credit ... 30	
Credit for Military Experience ... 31	
Scholastic Probation and Suspension System ... 31	
Scholastic Warning ... 31	
Graduation Procedures ... 32	
Unit of Credit ... 33	
Academic Load ... 33	

3 / ACADEMIC PROGRAMS	35
Degrees Offered ... 35	
Degree Requirements ... 35	
Associate Degree ... 35	
Baccalaureate Degree ... 35	
University Convocation ... 36	
Preprofessional Programs ... 36	
General Studies ... 37	
School of Agriculture ... 39	
School of Communications ... 41	
College of Education ... 41	
School of Fine Arts ... 42	
School of Home Economics ... 42	
College of Liberal Arts and Sciences ... 42	
Preprofessional Courses ... 43	
School of Technology ... 44	
Subject Concentrations Leading to a Degree ... 44	
Accounting ... 45	
African Studies ... 46	
Agricultural Education ... 46	
Agricultural Industries ... 47	
Agriculture, General ... 47	
Animal Industries ... 48	
Anthropology ... 49	
Art ... 49	
Asian Studies ... 51	
Biological Sciences ... 51	
Botany ... 53	
Business Teacher Education ... 53	
Chemistry ... 55	
Community Development ... 56	
Design ... 56	
Earth Science ... 57	
Economics ... 57	
Elementary Education ... 58	
Engineering ... 59	
Engineering Technology ... 60	
English ... 61	
Finance ... 63	
Foreign Languages ... 63	
Forestry ... 67	
Geography ... 68	
Geology ... 70	
Government ... 71	
Health Education ... 72	
Health Science ... 73	
History ... 74	
Home Economics ... 75	
Industrial Technology ... 80	
Instructional Materials ... 81	
Inter-American Studies ... 81	
Journalism ... 82	
Linguistics ... 83	
Management ... 84	
Marketing ... 84	
Mathematics ... 85	
Microbiology ... 86	
Music ... 86	
Nursing ... 89	
Philosophy ... 89	
Photography ... 90	
Physical Education ... 90	
Physics ... 91	
Physiology ... 92	
Plant Industries ... 93	
Psychology ... 93	
Radio-Television ... 94	
Recreation and Outdoor Education ... 94	
Religious Studies ... 96	
Russian and East European Studies ... 96	
Secondary Education ... 97	
Secretarial Studies ... 99	
Sociology ... 99	
Special Concentration ... 100	
Special Education ... 100	
Speech ... 102	
Speech Pathology and Audiology ... 103	
Student Teaching ... 105	
Technical and Industrial Education ... 109	
Theater ... 110	
Zoology ... 112	
Course Descriptions ... 113	
4 / FACULTY	221
School of Agriculture ... 221	
School of Business ... 221	
School of Communications ... 222	
College of Education ... 223	
School of Fine Arts ... 225	
School of Home Economics ... 226	
College of Liberal Arts and Sciences ... 226	
School of Technology ... 231	
Air Force ROTC ... 231	
Index	233

University Calendar

SUMMER, 1969 Quarter Begins Tuesday, June 17 *
 Independence Day Holiday Friday, July 4
 Final Examinations Monday–Friday, August 25–29
 Commencement (Edwardsville) Friday, August 29
 Commencement (Carbondale) Saturday, August 30

FALL, 1969 New Student Week Sunday–Tuesday,
 September 21–23
 Quarter Begins Wednesday, September 24 *
 Thanksgiving Vacation Tuesday, 10 P.M.–
 Monday 8 A.M., November 25–December 1
 Final Examinations Monday–Saturday,
 December 15–20

WINTER, 1970 Quarter Begins Monday, January 5 *
 Final Examinations Monday–Saturday,
 March 16–21

SPRING, 1970 Quarter Begins Monday, March 30 *
 Memorial Day Holiday Friday, May 29
 Final Examinations Monday–Saturday, June 8–13
 Commencement (Carbondale) Friday, June 12
 Commencement (Edwardsville) Saturday, June 13

SUMMER, 1970 Quarter Begins Monday, June 22 *
 Independence Day Holiday Friday, July 3
 Final Examinations Monday–Friday,
 August 31–September 4
 Commencement (Edwardsville) Friday, September 4
 Commencement (Carbondale) Saturday, September 5

FALL, 1970 New Students Sunday–Tuesday, September 20–22
 Quarter Begins Tuesday, September 22 *
 Thanksgiving Vacation Tuesday, 10 P.M.–
 Monday, 8 A.M., November 24–30
 Final Examinations Saturday–Friday,
 December 12–18

WINTER, 1971 Quarter Begins Monday, January 4 *
 Final Examinations Saturday–Friday, March 13–19

SPRING, 1971 Quarter Begins Monday, March 29 *
 Memorial Day Holiday Monday, May 31
 Final Examinations Saturday–Friday, June 5–11
 Commencement (Edwardsville) Friday, June 11
 Commencement (Carbondale) Saturday, June 12

* Classes begin with the evening classes after 5:30 P.M. on the Carbondale campus and with the evening classes after 4:30 P.M. on the Edwardsville campus.

Board of Trustees and Officers of Administration

BOARD OF TRUSTEES

Term Expires

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1 / The University and the Campus Organization

THE UNIVERSITY IN PERSPECTIVE

The year 1969 begins the five-year long celebration of the centennial of Southern Illinois University, which was chartered in 1869, and which initiated instruction in 1874. Since that time the University has sought to meet the educational needs of the times for the people whom it serves as a public institution. Consistent with the character of the University, the centennial celebration will stress the hopes and goals of the future in each of the major academic areas, rather than dwelling on the real accomplishments in the past history of Southern Illinois University.

Although the student population has increased to the point that Southern Illinois University was recently rated twentieth in the nation in enrollment of full-time resident students and twenty-third largest in total enrollment, the formation of schools, colleges, divisions, and departments within the University permits focus on the special interests of individual students. The University comprises the faculty and facilities to offer general and professional training ranging from two-year associate degree programs to doctoral programs.

Though Southern Illinois University is a single university, it has two major campuses, the Carbondale Campus, with its Vocational-Technical Institute and Little Grassy Facilities, and the Edwardsville Campus which offers degrees at Alton, East Saint Louis, and Edwardsville.

The University has maintained extensive overseas operations in many parts of the world, and it continues to develop its international education dimensions.

The University is fully accredited by the North Central Association of Colleges and Secondary Schools. The University and its various academic components carry the following accreditation on the baccalaureate and higher levels: North Central Association, National Council for Accreditation of Teacher Education, American Association of Collegiate Schools of Business, American Chemical Association, American Council on Education for Journalism, American Dietetics Association, American Psychological Association, American Speech and Hearing Association by American Board of Examiners in Speech and Hearing, Board of Vocational Education of the State of Illinois, National Association of Schools of Music, United States Office of Education, and State Board of Vocational Education for Vocational Home Economics.

Carbondale Campus

Immediately south of the city of Carbondale, the University campus, comprising more than four thousand acres, has developed a three-hun-

dred acre portion with woods and a lake as a site for its academic buildings and residence halls. The buildings are located in wooded tracts along two circular shaped campus drives, named for Lincoln and Douglas. Features that are located near the center of the campus complex are a wooded tract, preserved in the tradition of the native forests of Southern Illinois, and several buildings surrounding Old Main which formed the original campus almost a century ago. Among the recent additions to the campus skyline are the high-rise residence halls, the Morris Library with more than a million volumes, a multi-media classroom building, and the dome shaped S.I.U. Arena, seating more than 10,000 people for academic and recreational events.

The city of Carbondale is 100 miles southeast of Saint Louis, Missouri, in Jackson County, the western border of which is the Mississippi River. Immediately south of Carbondale begins some of the most rugged, picturesque terrain in Illinois. Sixty miles to the south is the historic confluence of the Ohio and Mississippi rivers, the two forming the border of the southern tip of Little Egypt, the fourteen southernmost counties in Illinois. The region immediately surrounding Carbondale is noted for its large peach and apple orchards. Within ten miles of the campus there are two state parks and four lakes. The largest of the lakes is Crab Orchard Lake, four miles east of Carbondale. It has a shoreline of 125 miles, and it is frequented by students for swimming, water skiing, boating, fishing, picnicking, camping, and hunting. Within the confines of the campus itself is the University's own Lake-on-the-Campus with facilities for swimming, boating, fishing, and picnicking.

The campus is undergoing extensive expansion. Approximately seventy large permanent buildings and several hundred small temporary buildings now comprise the campus. Additional buildings now under construction or recently completed include:

Life Science Building

General Classroom Building

Physical Science Building

Communications Building—Stage II

Humanities Building

Advanced Physical Science

University Center Addition

Recreation Complex

Residence Units: University Park, Evergreen Terrace

A campus for the Vocational-Technical Institute is located seven miles east of Carbondale, and includes classrooms, library, and shop facilities for its academic program, in addition to residence halls. The part of its program related to aircraft technology is located adjacent to the Southern Illinois Airport. Several of its temporary buildings are to be replaced by buildings representing the first stage of a master plan for the campus.

The Little Grassy Lake Facility consists of nine square miles of land adjacent to Little Grassy Lake and approximately seventy permanent structures. Although the programs conducted at Little Grassy are primarily devoted to instruction and training in recreation and outdoor education, many units of the University utilize its facilities in various ways.

Publications

From time to time reference is made in this catalog to other publications of the University. A list of these is given in this catalog immediately preceding the table of contents. For additional information write to the dean or director of the program or to Central Publications.

ACADEMIC AND RELATED UNITS

General Studies Division

JOHN W. VOIGT, *Dean*
Man's Physical Environment and Biological Inheritance;
Man's Social Inheritance and Social Responsibilities; Man's
Insights and Appreciations; Organization and Communication
of Ideas; Health and Physical Development

Except for students entering the Vocational-Technical Institute, freshmen, transfer students who have fewer than 64 quarter hours of acceptable transfer credit, and those who present 64 to 96 hours of credit and who are undecided in their educational goals, are placed in the General Studies Division. While in the division a student experiences contact with several areas of knowledge which can assist him in the thoughtful selection of a professional goal. If he knows his goal, he may work on the professional area concurrently with the courses of the General Studies curriculum.

The General Studies curriculum provides the wider social and cultural understanding increasingly necessary for successful participation as citizens in modern society and a broad base upon which a specialization can be built.

The General Studies curriculum, which is unique in several respects, involves the student during advancing stages of academic endeavor. A student takes first-level courses during his freshman year. Second-level courses are normally completed during the sophomore and junior years, and the third-level courses are designed to complement the student's professional education during his junior and senior years. The objective is to furnish a carefully prepared mix of mutually complementary generalized and specialized courses.

General Studies Division does not award degrees. The General Studies curriculum is a component of all baccalaureate programs in Southern Illinois University. Upon completion of a sufficient part of his General Studies requirements, a student transfers into the college or school of his major concentration.

Offices of the dean and of the academic advisers for students in General Studies are located on the ground floor of the south wing of Woody Hall.

School of Agriculture

WENDELL E. KEEPPER, *Dean*
Agricultural Industries; Animal Industries; Forestry;
Plant Industries

The School of Agriculture provides opportunity for the students to prepare themselves professionally through concentrating on study of agricultural and forest production and services and industries closely related thereto. Through teaching of formal courses, conducting research of significance to agriculture and forestry of the area, and providing consultation and service to the people of Southern Illinois in all phases of

agriculture, forestry, and related occupations, the School of Agriculture strives to encourage better use of rural resources for the general welfare.

More than eighty-five percent of Southern Illinois University's graduates in agriculture have entered such major employment areas as agricultural business, advanced professional training for research and teaching, agricultural education, and government services. About ten percent have gone into farming. Most forestry graduates have taken governmental or industrial positions. Graduates receive the Bachelor of Science degree.

The Agriculture Building houses the offices, classrooms, and laboratories of the school.

School of Business

ROBERT S. HANCOCK, *Dean*

*Accounting; Economics; Finance; Management; Marketing;
Secretarial & Business Education*

The School of Business aims to prepare students to perform successfully in business and other organizations functioning within a changing social, economic, and political environment. Study provides the student with fundamental principles and practices of organizational behavior and allows the mastering of knowledge and skills for effective management. The curriculum provides a broad base for understanding business while simultaneously allowing in-depth study within an area of concentration. Students find that the professional education they receive in the school is desired by business, governmental units, and other public institutions. The advanced curriculum, computer terminals, and extern programs provide students not only with a meaningful education but with a means of relating that education to organizations and commerce.

School of Communications

C. HORTON TALLEY, *Dean*

*Journalism; Printing & Photography; Radio-Television;
Speech; Speech Pathology & Audiology; Theater*

The School of Communications provides the opportunity for students to specialize in the study of the various mass communications media and to develop skills in the utilization of those media.

The School of Communications is also engaged in research work in the various aspects of mass communications. It provides consulting and other services to area schools, newspapers, radio and television stations.

The school occupies the Communications Building, which includes the newest theater on campus along with broadcasting facilities.

College of Education

ELMER J. CLARK, *Dean*

*Educational Administration & Foundations; Elementary
Education; Guidance & Educational Psychology; Health
Education; Higher Education; Instructional Materials; Physical
Education for Men; Physical Education for Women; Recreation
& Outdoor Education; Secondary Education; Special Education;
Student Teaching*

Preparation of teachers of all subjects taught in the public schools from kindergarten through high school is the special function of the College of Education. In its graduate offerings, however, it broadens its efforts to include professional work for prospective college teachers and several specializations in school administration and supervision. For most undergraduate students preparing to teach in high schools, the subject-matter courses will be taken in the other colleges and schools of the University, and the professional preparation for teaching, including the student teaching, will be taken in the College of Education.

Graduates of the College of Education receive the Bachelor of Science or the Bachelor of Music Education degree.

The College of Education, housed in the Wham Education building, is the oldest unit of the University, which was originally chartered as Southern Illinois Normal University.

School of Fine Arts

BURNETT H. SHRYOCK, *Dean*
Art; Design; Music

The School of Fine Arts serves as an instrument of the University for the direction of training and the stimulation of creative and professional work in the fine arts. It also serves students, enrolled in other academic units, who want an experience in the fine arts for either cultural or practical reasons. It offers undergraduate concentrations leading to the Bachelor of Arts or the Bachelor of Music degree.

The School of Fine Arts sponsors a number of special events each year. A Fine Arts Festival, which lasts several weeks, includes lectures by noted artists, musical ensembles, individual performances, dance recitals, dramatic presentations, and art exhibitions. A continuous planning of art exhibitions and an intensive series of public music performances are presented at no cost to students and faculty members.

University Galleries, a campus-wide activity in terms of the exhibitions of student and faculty work as well as traveling exhibitions, is under the jurisdiction of the School of Fine Arts.

Administrative offices of the school are in Shryock Auditorium. The Fine Arts advisement center is located in Woody Hall.

School of Home Economics

EILEEN E. QUIGLEY, *Dean*
Clothing & Textiles; Food & Nutrition; Home & Family;
Home Economics Education

The objectives of the School of Home Economics are to provide preparation for professional work in the various areas of home economics, for home and family life, for the personal development of the individual, and service to regional, national, and international areas. In addition to programs planned for students concentrating in home economics, a number of courses are offered to give men and women not concentrating in Home Economics an opportunity to study in areas related to home and family living.

Administrative and advisement offices, classrooms, and laboratories for the school are in the Home Economics Building.

College of Liberal Arts and Sciences

ROGER E. BEYLER, *Dean*

Anthropology; Botany; Chemistry; English; Foreign Languages; Geography; Geology; Government; History; Mathematics; Microbiology; Philosophy; Physics and Astronomy; Physiology; Psychology; Sociology; Zoology

The College of Liberal Arts and Sciences provides (1) training in basic subject matter courses of General Studies; (2) opportunity for concentration in a wide and varied selection of areas; (3) electives not available in other instructional units of the University; (4) extension and adult education offered through the appropriate divisions; (5) graduate-level instruction for students pursuing higher degrees than the baccalaureate; (6) preprofessional training needed for admission to such specialized schools as law, medicine, and dentistry.

The diversified offerings of the College of Liberal Arts and Sciences are designed to help the student achieve a balanced personality, an awareness of the cultures of the past, an appreciation of his fellow man, and a fundamental understanding of the ever-changing physical, social, and political environment in which he lives. A student in the college may prepare for teaching at the secondary level by including in his studies certain professional courses offered by the College of Education. Bachelor of Arts and Bachelor of Science degrees are granted by the college.

Administrative offices of the college are in the General Classroom Building; advisement offices are on the second floor of the central wing of Woody Hall.

School of Technology

MARVIN JOHNSON, *Acting Dean*

Applied Science; Engineering; Engineering Technology; Industrial Technology; Technical and Industrial Education

The School of Technology provides instruction in broad areas of technology. Through instruction, research, and consultative services, it serves Southern Illinois and has a growing responsibility in broader areas.

The courses of study in the School of Technology are designed to provide instruction and to stimulate research in all areas of technology. These courses of study serve to eliminate the barriers and to bridge the gaps between scientists, engineers, and technologists—between theories and their applications—between the creative and practical aspects, in the basic areas of science, engineering, and industry. Its course offerings provide:

1. Basic subject matter for development of the scientific and technological method and philosophy.
2. Preprofessional and professional training in the field of engineering leading to the Bachelor of Science degree.
3. Extension and adult education courses offered through the appropriate divisions of the University.
4. Graduate-level instruction for students pursuing higher degrees.

All offices and facilities of the School of Technology are centered in the Technology complex by the Lake-on-the-Campus.

Division of Technical and Adult Education

ERNEST J. SIMON, *Dean*

The Division of Technical and Adult Education was established with dual responsibility: to meet the fundamental functions of adult education in its performance in our society; and to serve high school graduates interested in obtaining a college-level course of instruction of a shorter duration than the usual four-year college program.

The Vocational-Technical Institute provides for high school graduates two-year college-level terminal courses of study for training technicians. These courses of study are designed to prepare men and women for employment at the semi-professional and technical level in industry, the allied health occupations, and business. The institute awards the Associate in Arts, Associate in Business, and Associate in Technology degrees.

The Vocational-Technical Institute is located approximately ten miles east of Carbondale and has its own classrooms, laboratories, library, offices, cafeteria, and residence halls.

The Adult Education course of study consists of noncredit courses in various vocational, technical, and general education fields designed to provide a wide variety of educational opportunities for adults.

Most courses range in length from eight to twelve weeks, two or three hours weekly. Certain special courses are offered for sixteen to twenty-four weeks. These courses are varied to meet the interests and needs of the adults served. The adult education courses are taught by regular staff members obtained from every division and school of the University, as well as carefully selected specialists from the ranks of business, industry, and the professions.

For further information obtain the Division of Technical and Adult Education bulletin from 908 South Wall Street, Carbondale.

University Extension Services

RAYMOND H. DEY, *Dean*

The University Extension Services is an all-university agency with offices on both the Carbondale and Edwardsville campuses. Its major function is to impart knowledge to persons not in regular attendance at the University. This is done in two ways: (1) the extension class program, and (2) the educational conference program.

Extension classes, which offer college credit and are identical to similar classes offered on the campus, are scheduled in the various communities in the southern half of the state of Illinois, or are offered by radio or television for Southern Illinois residents, where there is a need for them. Classes are also scheduled in foreign countries when there are definite advantages to having them offered there.

The educational conference program is conducted on both campuses of the University and occasionally off campus in nearby cities and towns. Assistance is given not only for local conferences but for state and national conferences.

Additional information may be obtained from the office of the dean of University Extension Services, located in Anthony Hall.

The Library

Morris Library contains approximately 1,025,000 volumes and 7,717 current periodicals, plus collections of textbooks, newspapers, maps, films, framed art works, and phonograph records. With the exception of volumes in the rare book room, all books are arranged on open shelves available for browsing.

Recognizing the importance of libraries in a college education, the University has given special attention to both quantity and quality of library development. More than 119,000 volumes were added to the library during the past year, placing Southern Illinois University high in growth among the nation's libraries. Reference librarians throughout the library are available to assist in locating materials. A handbook on library use is available from the library. Those wishing further instruction may enroll in a course on library research methods.

Morris Library houses four subject libraries (Education, Humanities, Science, and Social Studies), a Reserve Reading Room, the Learning Resources Service, and the Textbook Rental Service. Microtext reading equipment is available in each subject library; hi-fidelity phonograph listening equipment is provided in the Humanities library. A central card catalog of the entire collection is located on the first floor; books may be borrowed from a central circulation desk using an automated charging system. An inexpensive photocopying service is available to students at the circulation desk.

Special libraries are also provided for the University Laboratory School, the Vocational-Technical Institute, and the Little Grassy Facilities.

Within the library system the Learning Resources Service makes films and other audio-visual materials available to students as individuals and in small groups in much the same way as books are available through the reserve system. There are about 3,000 film showings per week on this basis. The service supports the full range of instructional activity with the design, making, and use of graphics and audio-visual aids.

A facility of the Learning Resources Service is the central Self-Instruction Center, described under *Student Services* in this chapter. There are also self-instruction mini-centers placed at convenient locations over the campus.

SPECIAL INSTITUTES AND PROGRAMS

Aerospace Studies

COL. EDWARD C. MURPHY, *Commander*

The Air Force Reserve Officers Training Corps Detachment is a senior division ROTC unit administered by commissioned officers of the United States Air Force. The Department of Aerospace Studies offers a two-year and a four-year program. The latter is divided into the General Military Course (GMC), covering the freshman and sophomore years, and the Professional Officer Courses (POC), covering the junior and senior years. The courses of the POC are designed to provide the fundamental training, both personal and professional, which will best equip a cadet to become an effective junior Air Force officer possessing a high growth

potential and also to develop and stimulate a growing desire on his part to enter the Air Force training program. The GMC is designed with two additional objectives in mind: first, to interest the cadet in the possibility of continuing in the advanced AF ROTC and ultimately making the Air Force his career; and second, to provide him with Space Age citizenship training of long-range value to the Air Force whether he returns to civilian life or becomes a member of the USAF.

In addition to the AF ROTC programs offered for academic credit, Aerospace Studies indorses or directly sponsors extracurricular activities. The Arnold Air Society, a national honorary service organization, is open to selected AF ROTC cadets. Membership in the Angel Flight, an auxiliary of the Arnold Air Society is open to selected undergraduate women. Angel Flight assists the cadets of the Arnold Air Society in community/campus service-oriented projects.

Further information may be obtained from Aerospace Studies, Wheeler Hall.

Black American Studies

The Black American Studies program is designed to foster an awareness and understanding of contemporary developments respecting black Americans by virtue of new historical and cultural perspectives. The program acts as a clearing house for the collection and effective dissemination of information about Black America and for collation of opinions, critical evaluations, and assessments of needs for new curricular material.

A reference center in the former Doyle dormitory is stocked with books, journals, and other documents, by, about, and significant to black Americans. Recordings of speeches and music by famous black Americans are provided in the program's media room.

Center for Management Development

R. RALPH BEDWELL, *Director*

The primary objective of the Center for Management Development is to serve the continuing educational needs of individuals from business, education, and government in the primary service area of Southern Illinois and beyond through the offering of noncredit management development programs, small business development programs, and programs for academicians.

Inquiries should be addressed to the director, Center for Management Development.

Community Development Institute

RICHARD M. THOMAS, *Director*

The Community Development Institute has been established for students seeking training in work with individuals and groups striving to develop a more satisfactory life within the community setting. The institute's purposes also include training of adults concerned with improving their community leadership, and cooperating with academic units of the University and other agencies in research undertakings to investigate community processes and social change. Research findings from these undertakings become invaluable to the communities in their development. A

secondary concentration in Community Development is available. Offices of the institute are in Anthony Hall.

Intercul

PAUL MORRILL, *Director*

Intercul is a program for intercultural study. General Studies courses selected for inclusion in the program are designed to prepare freshmen and sophomores for area studies programs in African Studies, Inter-American Studies, Asian Studies, or Russian and East European Studies. Any one of the specific area studies or Intercul generally, may be the student's field of primary or secondary interest. The Latin American Institute offers a primary or secondary concentration in inter-American Studies while a secondary concentration is provided in African, Asian, or Russian and East European studies. Intercul will also assist a student in developing an individually designed area studies study program, which may be obtained through the University's special concentration program. This program permits a student to receive approval to follow a specially designed program rather than those usually followed by students. Intercul participation may be combined also with a concentration in other fields.

Special Intercul courses or sections are offered in anthropology, geography, economics, government, history, philosophy, and the humanities with reference to the foreign areas listed above. Outside of the framework of courses, the Intercul staff helps students plan foreign study and travel and individual self-instruction programs in areas not covered by regular University offerings.

For further information write Intercul.

Labor Institute

JOHN M. McDERMOTT, *Director*

The function of the Labor Institute is to promote harmony and cooperation between labor and management by encouraging the training of students and others interested in labor and industrial relations and to provide advice on the technical aspects of labor and industrial relations to labor, to industry, and to the public. Location of the institute is 805 South Elizabeth Street.

Latin American Institute

A. W. BORK, *Director*

In order to provide a special course of study for the student interested in Latin America, the Latin American Institute offers an undergraduate concentration in inter-American studies leading to the Bachelor of Arts degree in the College of Liberal Arts and Sciences. The institute is located in the International Center in Woody Hall.

President's Scholar Program

The President's Scholar Program is designed to enable academically talented students to profit from an association with each other; to achieve

maximum flexibility within the framework of the general University curriculum; and to take fullest advantage of the talents and resources in the University.

A council of President's Scholars works with a faculty committee and the program staff to further the purposes of the program and to initiate and develop special courses and activities of interest. The staff assists the scholars individually and in groups to obtain the best curricular and extra-curricular conditions for excellent and rewarding academic work. The program has no set format or curriculum; it is intended to provide opportunities for the individually styled education particularly appropriate to superior students.

Test scores and high school standing provide the basis for inviting entering freshmen to participate in the program. Invitations to other students result from high academic performance at Southern Illinois University. Participants retain the prerogatives of President's Scholars throughout their undergraduate years as long as they meet minimum standards of academic performance and fulfill other limited conditions. Participation in the President's Scholar Program is inscribed in the student's official record.

Inquiries about the program should be addressed to the director, President's Scholar Program.

Transportation Institute

MELVIN HANSON, *Acting Director*

The Transportation Institute has been established to meet the growing need for specially educated men and women in the transportation and logistics field. Short courses of a continuing educational nature are offered periodically throughout the school year for personnel in or associated with the transportation industry as well as for students and faculty. Courses in transportation and logistics are sponsored in cooperation with other activities of the University in both undergraduate and graduate degree programs.

STUDENT SERVICES

Southern Illinois University recognizes the importance of providing students every opportunity to benefit in the fullest manner from their college experiences and is concerned with an integrated approach to student needs and problems. Students may learn more about these services throughout the University by reading publications such as the Handbook for Students or the Handbook for Married and Graduate Students or publications describing specific services as listed elsewhere in this catalog. It is the student's responsibility to seek these services and to use these facilities according to his needs.

Bus Transportation

Both intracampus and intercampus bus service is available to students. A free intercampus bus service operates daily between Carbondale and the Vocational-Technical Institute. In cooperation with a private company, the University provides a daily intracampus bus service.

Center for English as a Second Language

The Center for English as a Second Language is staffed by especially trained members of the University faculty and designed to teach English to students from other countries who intend to study in American colleges and universities. The program is open, however, to anyone wanting to learn English.

Cooperative Clinical Services

The Cooperative Clinical Services Center is a coordinated center of professional services on the campus. These services are not only available to students, but to children, adolescents, and adults not affiliated with the University.

Counseling and Testing Center

Counseling services for students offered by the center range from discussions with students concerning educational or vocational plans to working with students who have personal, social, or emotional problems.

The center personnel also administer tests ranging from preadmission tests to graduate school examinations. Preprofessional examinations and other types of aptitude interest and proficiency examinations are also given to students.

Dean of Students Office

The Dean of Students coordinates the student services offered by the units under his jurisdiction—the Counseling and Testing Center, the Housing Business Services Office, and the Student Activities Office.

The Dean of Students Office is decentralized with each major living area on campus having its own Assistant Dean of Students. For those students not living in University residence halls there is an Assistant Dean of Students for Commuter, Married, and Graduate Students and an Assistant Dean for Off-Campus Single Students. The Area Deans, the nomenclature attached to this group of administrators, work closely with other areas of the Dean of Students Office and with other services and faculty in planning and implementing an integrated program of activities and services for students.

The Dean of Students also works closely with student government in the development of policies concerning students and the student code. All students should be cognizant of University requirements and regulations which can be found in the Handbook for Students.

Financial Assistance

The University has an excellent program administered by the Student Work and Financial Assistance Office whereby a student may combine student work with financial assistance to defray a large part of his educational expenses. Student job diversity extends from unskilled entry jobs to those jobs requiring college training. Employment opportunities

for students exist in every unit of the University. In addition to student work, scholarships, grants, loans, and other aids are available to assist academically capable, financially needy students.

Information regarding employment opportunities for the non-student spouse is available at the Commuter, Married, and Graduate Students Office.

Handicapped Student Services

This office coordinates special services on the campus for handicapped students and works with the Vocational Rehabilitation Association and the Illinois Division of Vocational Rehabilitation and other agencies concerning grants or other forms of assistance to provide services to the handicapped.

Health Service

Facilities of the Health Service include an outpatient clinic, infirmary, pharmacy, laboratory, X-ray facilities, and an emergency vehicle service. Students who pay the full activity fee are entitled to all benefits provided by the Health Service except drugs, which the student may purchase at cost.

The University sponsors a voluntary hospital insurance program for all students who pay activity fees.

Housing

Description and Regulations

Because of the relationship between the student's living environment and his progress towards attainment of his educational goals, the University provides some on-campus housing for its students and seeks continually to influence both the availability and quality of off-campus housing. The basic student housing policy for single undergraduate students is as follows:

Single undergraduate students not residing with their parents or guardians will be permitted to reside only in those accommodations which have been and which continue to be classified as Accepted Living Centers. The administration vigorously encourages that all accommodations used by graduate students and married undergraduates meet the same minimal standards.

Housing Business Services

Applications and contracts for all University facilities, including family housing, are handled by this office. In addition, this office is also responsible for all fiscal matters and maintenance aspects of University housing.

Housing Information Office

Information concerning the price and availability of both on- and off-campus housing is available to students through this office.

The office keeps listings of inspections and classifications of off-campus rental facilities and information about University residence halls.

Married Student Housing

University housing for married students includes furnished one-bedroom, two-bedroom, and three-bedroom apartments, a trailer court, and two-bedroom and three-bedroom apartments equipped only with electric ranges and refrigerators. Inquiries regarding these units should be addressed to the Housing Business Services Office.

The Office of Commuter, Married, and Graduate Students provides a listing of private rental facilities which are rented only to married and graduate students.

Off-Campus Housing for Single Students

In order for living accommodations to be classified as Accepted Living Centers, facilities must meet certain safety, sanitation, health, recreation, and supervisory standards. Owners of off-campus housing facilities use the University's contract form for student rental housing. The Off-Campus Student's Office provides a listing of private rental facilities.

University Housing for Single Students

Applications for University housing for students for any academic year may be filed after September 1 of the preceding year. Assignments of space and contracts for housing are offered on the basis of the date of admission to the University and are available from the Housing Business Services Office.

Students enrolled in the Aviation Technology program of the Vocational-Technical Institute should request housing on the campus. Although it is a VTI program, most students enrolled in Aviation Technology will have no classes on the VTI campus and the airport is more accessible from Carbondale.

International Student Services

This office attends to the special needs of students from abroad by assisting them with matters of immigration, passport problems, contacts with sponsors, foundations, agencies, governments, and matters of financial and personal urgency.

National Service Information

A national service information officer is available in the Office of the Dean of Students to supply factual, up-to-date information about Selective Service and opportunities in such national service programs as the Peace Corps, Teacher Corps, and VISTA.

Placement Service

This office assists students, graduates, and others who have been attending the University who desire to find employment. It also serves employers by helping them locate personnel. Services are free to candidates seeking positions, as well as to employers.

Reading Center

The Reading Center maintains a College Reading Service section to provide services for all students who desire to increase their speed and comprehension skills or need general assistance with reading or studying skills.

Self-Instruction Center

The Learning Resources Service maintains a Self-Instruction Center to assist students who wish to (1) extend their studies beyond regular course work, (2) explore subject matter in which they have an interest, (3) have help preparing for proficiency exams, final exams, or prerequisite exams, (4) review previously covered material, or (5) have help in subjects in which they are having difficulty.

The center, on the main floor of Morris Library, contains programmed instructional material prepared by university faculty and by commercial suppliers, tapes, films, slides, film-strips, and all equipment necessary for using them. Latest addition to the center is a push-button access information retrieval system.

Stenographic Service

The Stenographic Service offers secretarial, duplicating, and binding services to students. Students are charged for materials and labor.

Student Activities

The staff members of the Student Activities Office are available to all campus groups and individuals in planning, conducting, and evaluating activities and programs. Besides honorary organizations which stimulate and recognize academic achievements, other groups and organizations exist to meet the educational, religious, social, recreational, political, and other special interests of the student. Participation in any group or organization is open to all students.

In addition, this office cooperates with the Student Government Activities Council in sponsoring and planning all University events such as Homecoming and Parents' Day and other cultural and social programs. The office is also responsible for the intramural and recreational programs on the campus.

University Center

The University Center provides facilities for dances, banquets, receptions, gallery exhibitions, and meetings. In the building, there are lounges, a cafeteria, a television lounge, bowling lanes, pool and billiard tables, Ping-Pong tables, card and study tables, a snack bar, locker storage, vending machines, and the University Book Store.

2 / Academic Requirements and Procedures

Admission Policies, Requirements, and Procedures

IN ORDER to attend classes at Southern Illinois University, one must gain official admission to the University and must complete the registration process, which includes specialized testing, advisement, sectioning, and payment of fees.

Applications for admission to the University are accepted any time during the calendar year but should be initiated in ample time to permit the necessary work of processing to be completed.

Admission of Freshmen

To be eligible for admission, effective with the 1969 summer quarter, a person must be either a graduate of a recognized high school (graduates of non-recognized high schools may be admitted by the Director of Admissions by examination), or must have passed the General Educational Development Test. A person seeking admission through the latter procedure will be considered only after his high school class would have graduated.

In-state high school graduates who rank in the upper half of their graduating class based upon class rank or by score on the University entrance examination are eligible for admission to any quarter. Graduates who rank in the lower half of their graduating class are admissible to the summer quarter on a conditional basis.

Out-of-state high school graduates who rank in the upper forty percent of their graduating class based upon class rank or by score on the University entrance examination are eligible for admission to any quarter. Out-of-state high school graduates who rank in the upper half of their graduating class, but not the upper forty percent, are admissible to the summer quarter on a conditional basis.

Both in-state and out-of-state students admitted to a summer quarter on a conditional basis can qualify for fall quarter attendance by carrying a minimum academic load of eight quarter hours and completing them with at least a C average. Otherwise, the next earliest time that they might enter will be the following summer and under the same conditions.

Students meeting the standards making them eligible for admission to any quarter will be considered for admission after completion of the sixth semester of high school. Students who do not meet these standards will be considered for summer quarter admission based upon completion of the seventh semester of high school work.

University entrance examination scores must be furnished by students prior to their being admitted to the University. Currently the ACT (American College Testing Program) is the required test.

All admissions granted students while in high school are subject to the completion of high school work and maintenance of rank upon which the admission was made.

A student entering the University as a freshman is enrolled in the General Studies Division unless he is being admitted to the Vocational-Technical Institute.

Admission of Transfer Students

For academic purposes an undergraduate applicant for admission to Southern Illinois University is considered to be a new freshman provided he presents fewer than twelve quarter hours of graded work for transfer consideration, otherwise he is considered to be a transfer student.

Effective with the 1969 summer quarter, students applying as undergraduate transfer students from four-year institutions are admissible to any quarter provided they had a 3.00 grade point average at the institution of last attendance. Students who do not have a 3.00 grade point average at the institution of last attendance but are eligible to continue at that institution will be considered for admission on probation for summer, winter, and spring quarters. Those who are not eligible to continue at their last institution will be considered for admission on probation for the summer and spring quarters provided there has been an interruption of schooling of at least two quarters duration and there is tangible evidence that additional education can be successfully completed by the student.

In the event a student has attended more than one institution, the institution of last attendance is considered to be the one last attended on a full-time basis for at least one quarter or semester. Twelve hours is considered as full-time for this purpose.

Students applying for admission from two-year institutions are subject to the same conditions specified above for transfer from four-year institutions. However, a student who did not meet the University's admission requirements to enter as a freshman from high school during the regular year and who elected to enter a two-year institution will not be considered for admission as a transfer student until he has completed one year of attendance at the two-year institution. This means an academic year or 48 quarter or 32 semester hours. Also, students who have graduated with an associate degree in a baccalaureate-oriented program from a two-year institution may enter Southern Illinois University any quarter without regard to their average provided they have not taken additional college-parallel work since their graduation. If they have, their admission will be considered from the same standpoint as a student transferring from a four-year institution.

Transfer students who have been suspended for any reason other than academic failure must be cleared by the Dean of Students office before admission will be granted by the Director of Admissions.

Transfer credit is evaluated for acceptance towards University and General Studies requirements by the Registrar's Office after the admission decision has been made. The evaluation toward satisfaction of specific curriculum requirements is done by the department or agency directing the specific curriculum. General principles governing the acceptance of transfer work are as follows:

1. All transfer work is entered on the student's official record of aca-

demic work maintained in the Registrar's Office and continues to be applied to the student's total academic record.

2. Not more than one-fourth of the work accepted from each institution for application towards the number needed for graduation may be of *D* quality. Any *D* work not so accepted, however, may be used to satisfy general University, academic unit, or specific program course requirements when applicable.

3. Credit transferred on or after June 1, 1967, from an accredited two-year institution is limited only by the provision that the student must earn the last 96 quarter hours required for the degree at Southern Illinois University or at any other approved four-year institution, except that the student must meet the residence requirement for a degree from the University. These requirements can be found elsewhere in this catalog. Conditions governing the acceptance of credit from four-year higher educational institutions also apply to acceptance of students from two-year institutions.

Further information on the application of transfer work towards satisfying General Studies and graduation requirements may be found elsewhere in this catalog.

Transfer students presenting fewer than 64 quarter hours of acceptable work will be enrolled in the General Studies Division as will those with 64 to 96 hours whose areas of concentration are not yet determined. Others will be enrolled in the appropriate upper division academic unit in keeping with their expressed educational objective. Transfer students admitted to V.T.I. will be enrolled in that academic unit.

Admission of International Students

In general, international students must meet the same academic standards for admission as those required of native students. As there is considerable variation between educational systems throughout the world, precise comparative standards are not always available. Therefore, international students are selected upon the basis of the excellence of their former academic work, personal recommendations of former teachers and colleagues, the judgment of the University as to whether it has academic programs of benefit to the student, and the student's financial arrangement for his support during the normal period of time required to reach the objectives of his study. Undergraduates who have had previous schooling in the United States are required to submit scores from the American College Testing Program examinations if they have accumulated less than one full year of college credit.

International students interested in making application to the Carbondale Campus of Southern Illinois University should address their inquiries to the Admissions Office. At that time they will receive a copy of the *Information for Prospective International Students* booklet which outlines in greater detail information about the University and admissions procedures of particular interest to international students.

Admission of Former Students

A former student of Southern Illinois University not in attendance on a campus at the close of the quarter preceding application for admission must apply to the Admissions Office for re-entrance prior to registration.

A former student who is not in good standing must clear his status be-

fore the Admissions Office will prepare his registration permit. It is advisable for such student to initiate re-entrance clearance with the Admissions Office early so that all inquiries may be answered and so that the applicant can find time to complete any requirements that may be imposed upon him. (See Scholastic Probation and Suspension System elsewhere in this bulletin for further information.)

Applying for Admission

A student may start his admission process at any time. High school students who rank sufficiently high to be eligible for admission to any quarter are urged to initiate action during their seventh semester in high school. Others may apply at that time but decision will be delayed until after the end of the seventh semester. Transfer students should initiate the process during the last semester or quarter of attendance at the previous school if they plan to transfer without interruption. Students who delay their admission processing until the start of the quarter which they wish to enter, while they will be admitted if eligible, are subject to late registration fees and may be confronted with having to accept less desirable class schedules than would otherwise be the case.

The admission process is started by writing the Admissions Office, Southern Illinois University, Carbondale, Illinois 62901, indicating a desire to apply and requesting admission materials. The materials that are sent contain the application and related forms that need to be completed along with procedural instructions. Information is also included relative to housing and financial assistance.

Documents Required for Admission

Among the items required by the University before admission is completed are the following:

1. The completed application form from the student.
2. Transcripts of previous educational experience. For the high school student the request is for two copies of the high school transcript. For the transfer student the request is for an official transcript from each institution previously attended sent directly to this University from the previously attended school. In addition, transfer students presenting fewer than 48 quarter hours (32 semester hours) of completed work must provide to the University a copy of their high school transcript.
3. University entrance examination scores. All students applying for admission directly from high school and all transfer students who have completed fewer than 48 quarter hours (32 semester hours) must have their official ACT scores sent to the University from the American College Testing Program, Box 451, Iowa City, Iowa 52240.
4. Physical examination form. Each new student admitted as a full-time undergraduate student is requested to have a physical examination performed by a private physician recorded on the form provided by the University. This must be done prior to registration in the University. The completed form is to be sent directly to the University Health Service. In case of a religious belief which is in conflict with the plan, special arrangements may be made with the director of the University Health Service.

Applications for housing and financial assistance are separate from the

admission process and directions relating thereto are contained in the brochures on these subjects which the students receive when they request admission materials.

Orientation, Advisement, Registration

Through a carefully designed system of orientation, academic advisement, and registration the University attempts to assure entering students an efficient and effective introduction to the University prior to the time they start class attendance. The more extensive program is provided for those students entering during the fall quarter while more abbreviated activities are in operation for the other quarters.

For many years the University has used an advanced registration system through which all continuing students and most new students are expected to be academically advised and registered for a quarter well before its actual start. The advance registration period for fall quarters ordinarily runs from the middle of April through the end of May and then from the early part of July to the latter part of August.

During the July–August period three days each week are set aside for new freshman and transfer student orientation, advisement, and registration. Students are invited to have their parents accompany them so that they too may secure a better understanding of the University and its operation than might otherwise be the case. The orientation program on these days is of necessity an introductory type in which questions about admission, housing, financial assistance, etc., can be answered. Later, at the start of the fall quarter new students participate in three days of orientation activities during which time they receive a well rounded introduction to university life.

Starting in May and extending through June the University's Admission Office contacts new students admitted to arrange appointment dates for them to come to the campus. Through this process only the number of students that can be efficiently handled are involved each day. Students who cannot come to the campus during the summer or who delay applying for admission beyond the advance registration period may register at the start of the fall quarter but are required to come to campus a few days before those who have registered during the summer period. New students who have not been advised and registered by the time the student orientation period starts at the beginning of the fall quarter are considered to be late registrants and are subject to a late fee payment.

Similar procedures are followed at the start of each of the other quarters. Admitted students are kept informed of orientation, advisement, registration procedures, and the times when they occur by the Admissions Office in cooperation with the Student Activities Office. The latter office is the University's administrative agency that assists the large number of volunteer students who actually operate the New Student Days activities at the start of each quarter.

Academic Advisement

Academic advisement is administered by the academic units. Each unit employs a selected group of trained advisers devoting part-time directly to this function. They operate under the supervision of a chief adviser who is responsible to the dean of the academic unit.

The University accepts the importance of the academic advisement function. Insistence on receipt of transcripts and ACT scores prior to admission serves not only to determine admission but later provides suitable educational information to the advisers upon which decisions can be made relative to the proper courses to advise the students to take. On the basis of this information the advisers can make intelligent decisions relative to students who should receive advance standing in courses or who should be urged to take proficiency examinations in courses about which they appear to be already well informed.

Registration

Registration for any session of the University is contingent upon becoming eligible for registration. Thus an advance registration, including the payment of tuition and fees, is considered to be invalid if the student is later declared to be ineligible to register due to scholastic reasons. The enrollee may also be considered ineligible to register because of financial or disciplinary reasons if this is certified to the registrar by the appropriate University office.

Detailed information about the dates and procedures for advisement and registration appears in each quarter's Schedule of Classes, which is available from Central Publications.

There are several basic principles governing registration for classes as follows:

1. Students are officially registered only for those courses which appear on their schedule of classes. Changes therefrom can be made only through the processing of an official program change.
2. Registration ends at the close of the first week of school. This includes the registration into new courses or the changing of sections through the program change process.
3. A student may not drop a course merely by stopping attendance. To do so results in an ABS grade. A course may be dropped through the program change route through the first four weeks without a letter grade being assigned. Thereafter, a passing or failing grade will be assigned in keeping with the student's status at the time of withdrawal.
4. There is a terminal date near the end of each quarter after which program changes or withdrawal from school are not permitted except under exceptional conditions. This date is usually two weeks before final examinations begin. The specific date appears in each quarter's Schedule of Classes.

Withdrawal from the University

Withdrawal from the University is initiated by contacting the Counseling and Testing Center in the Dean of Students office. This should be done in person if a student withdraws after school has started and he is on campus. If he is unable to come to campus he may write the Dean of Students office asking that they process a withdrawal for him.

A student who advance registers, including the paying of fees, and who then finds that he cannot attend school must process an official withdrawal the same as do those who withdraw after school starts. In this case the process is the same as outlined in the paragraph above. A student who advance registers but does not clear his fees by the announced deadline date is automatically cancelled.

Refer to the section *Payment and Refunding of Fees* later in this chapter for information about the refunding of tuition and fees when withdrawing from the University.

Tuition and Fees

The types and amounts of tuition and fees charged students are established by the Board of Trustees and are subject to change whenever conditions make changes necessary. Listed below are the tuition and fees that will be assessed a student per quarter beginning fall quarter 1969:

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident	\$22.00	\$45.00	\$67.00
Tuition Fee—Out of State Resident	(69.00)	(137.00)	(206.00)
Student Welfare and Recreation			
Building Trust Fund Fee	5.00	10.00	15.00
Book Rental Fee	3.00	6.00	8.00
Student Activity Fee	3.50	7.00	10.50
University Center Fee	5.00	5.00	5.00
Athletic Fund Fee	3.00	6.50	10.00
<i>Total</i> —Illinois Resident	\$41.50	\$79.50	\$115.50
<i>Total</i> —Out of State Resident	(88.50)	(171.50)	(254.50)

In addition to the above fees, a student is subject to certain other charges under the conditions listed below:

1. A late registration fee, which is \$2.00 for the first day and which increases \$1.00 each day to a maximum of \$5.00 when a student registers after the regular registration period has ended.

2. A \$2.00 program change charge whenever a student changes his program from the one for which he originally registered, unless the change is made for the convenience of the University.

3. A graduation fee of \$17.00.

Students holding valid state scholarships are exempt from the above tuition and fees to the extent provided by the terms of the specific scholarship held. An Illinois State Scholarship, unless an honorary one, covers all of the charges except the late registration and program change fees. An Illinois State Teacher Education Scholarship, an Illinois Military Scholarship, an Illinois General Assembly Scholarship, or an Illinois County Scholarship exempts the student from the paying of tuition, the student activity fee, and the graduation fee.

The student activity fee includes the fees for limited hospitalization, entertainment, athletics, student publications, and other privileges.

Faculty members and university civil service employees taking courses are not charged tuition and activity fees. However, they pay all other appropriate fees.

Extension course fees are \$6.00 per hour plus a \$1.05 book rental fee per course.

Adult education course fees are computed on the basis of approximately sixty cents per contact hour.

Other charges which a student may incur are those for departmental field trips, library fines, and excess breakage. Also, a student taking a course involving use of materials, as distinct from equipment, will ordinarily pay for such materials.

A student registering for courses on an audit basis pays the same tuition and fees as though he were registering for the courses for credit.

A student is entitled to a free transcript of his university record each time he has added academically to his record through work taken at this University, provided he has fulfilled all his financial obligations to the University. There is a charge of \$1.00 for each additional transcript.

PAYMENT AND REFUNDING OF FEES

Fees are payable quarterly during the academic year. A student who registers in advance receives a fee statement and may pay either by mail or in person at the Bursar's Office, by the deadline date, in accordance with instructions accompanying the fee statement. Otherwise his advance registration is cancelled and he must register again later. A student who registers at the start of a quarter must pay fees at the time of registration.

Refunding of fees is possible only if a student has withdrawn from school, officially, within the first two weeks of a quarter and only if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration day. This means that for quarters starting on a Monday the withdrawal from school must have been officially made within the first two calendar weeks of the quarter and the refund application received by Monday of the third week. No refunding of fees is made for a withdrawal occurring after the first two weeks. The specific deadline dates for each quarter appears in that quarter's Schedule of Classes.

A student who processes a program change which places him in a different tuition and fee category than the one for which he originally registered will be assessed additional tuition and fees when appropriate. If the change places him in a lower tuition and fee category he may apply for the appropriate tuition and fee refund provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University are eligible for a refund. This is during the first two weeks of a quarter. Application for a refund in this case is made at the Registrar's Office.

Student Residency Regulations

Regulations defining the residence of students for purposes of registration in Southern Illinois University are as follows:

1. Evidence showing the residence of every applicant for admission to the University must be submitted to the Registrar at the time of application for admission, and resident or nonresident fees shall be assessed on the basis of evidence appearing in the Registrar's records.

2. In all cases where the records indicate that the student's home is outside the state of Illinois, the nonresident fee shall be assessed. A student who takes exception to the ruling may file a claim for a refund, but this must be submitted to the Registrar within 10 days of the opening date of the quarter for which the charge was made.

3. In the case of a student who is a minor, the residence of the parent, or if the student has no parent, the guardian of this person, shall govern unless there is proven to have been complete emancipation of the minor from his parents or guardian and he has established residence in the state of Illinois.

4. Any student, adult or minor, whose parents have established a bona

fide residence in the state of Illinois will be regarded as a resident for registration purposes; except that an adult student who has established a residence on his own account outside of the state must conform to the terms set forth in regulation 6 to be classified as a resident.

5. A wife is classified as a resident for registration purposes if her husband is a bona fide resident of the state of Illinois preceding and at the time of her registration.

6. An adult student, whose parents are deceased or whose parents reside outside the state, to be considered a resident of Illinois for purposes of registration must be a bona fide resident of the state for three months preceding the beginning of any quarter for which he registers at the University and must present evidence that he is self-sustaining and not under parental control.

7. An adult alien who holds valid immigration papers and is in the United States under an immigrant-type visa may qualify as a resident of the state for purposes of registration in the University if he has lived within the state for at least a period of twelve months next preceding the beginning of any quarter for which he registers at the University, subject to the provisions of rules 4 and 6.

8. Several factors will be considered in the determination of each individual case. Among the factors to be considered will be (a) location of draft board registration, (b) voting address, if any, (c) the degree of self-support of the student, (d) location of summer or vacation employment.

9. All cases of appeal shall first be referred to the Legal Counsel of the University. An appeal from the Legal Counsel shall be in accordance with University statutes.

Note: In the above regulations an adult student is considered to be a male at least 21 years of age or a female at least 18 years of age.

Grading System

Grades are expressed in letters as follows:

	GRADE POINTS PER HOUR
A, Excellent	5
B, Good	4
C, Satisfactory (this is intended to be the average grade)	3
D, Poor, but passing	2
E, Failure	1
P, Pass. Hours earned apply towards graduation but do not affect student grade point averages.	
F, Fail. Hours do not apply towards graduation and do not affect student grade point averages.	
W, Authorized withdrawal with no basis for evaluation established. Work may not be completed. Approved grading symbol only on graduate level except for unusual circumstances where an academic unit dean recommends a change in grade from ABS to W.	
WP, Authorized withdrawal with passing grade.	
WE, Authorized withdrawal with failing grade.	
WF, Withdrawal with failing grade. Does not affect student's grade point averages.	

INC, Incomplete. Has permission of instructor to be completed.

DEF, Deferred. Used only for graduate courses of an individual, continuing nature such as thesis or research.

ABS, Unauthorized withdrawal. Same as *E* for academic retention purposes.

S, Satisfactory. Used only for noncredit courses.

U, Unsatisfactory. Used only for noncredit courses.

AU, Audit. No grade or credit earned.

A grade given at the end of a course is final and may not be raised by additional work.

The grades of *A*, *B*, *C*, *D*, *E*, *WE*, *WF*, and *ABS* are included in determining student grade point averages.

Authorized course withdrawals made through the program change process do not receive grades when made during the first four weeks of a quarter. Thereafter, authorized withdrawals receive *WP* for withdrawal with a passing grade, *WE* or *WF* for withdrawal with a failing grade, or *W* (for graduate students only) when no basis for evaluation has been established.

A *DEF* grade for course work of an individual nature such as research, thesis, or dissertation is changed to a completed grade when the project has been completed.

The grades of *S* and *U* are used to indicate satisfactory or unsatisfactory completion of a noncredit course.

A student registering for a course on an *audit* basis receives no letter grade and no credit. An auditor's registration card must be marked accordingly, and he pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for audit or credit may change to a credit status or vice versa through the official program change method during the first four weeks of a quarter. Thereafter the change may not be made.

The official record of a student's academic work is maintained in the Registrar's Office.

Unauthorized course withdrawals which are made through failure of the students to continue in attendance receive a grade of *ABS*. An *ABS* grade for a student may be changed to a *W* in unusual circumstances upon the recommendation of the head of the student's academic unit.

An *INC* grade may be changed to a completed grade within a time period to be designated by the instructor, not to exceed one year from the close of the quarter in which the course was taken; otherwise it remains as *INC* and is not included in grade point computation.

Courses in which *D*'s or *E*'s were received may be repeated and the last grade will be used in computing the student's grade point average. The repeating of a course does not remove the previous grade from the student's official academic record card. In following this system, the University is not committed to continue courses in effect in order that students may always repeat courses.

Special Grading System

Effective with the 1968 fall quarter and for a two-year experimental period thereafter, the various undergraduate academic units at their discretion may permit their students to take a limited amount of course work on a Pass-Fail basis rather than on the regular letter grade basis. The experiences of the two-year period will determine whether this system will be continued beyond the 1970 spring quarter.

The purpose of the Pass-Fail grading system is to encourage students to broaden their education by undertaking intellectual exploration in elective courses outside their area of specialization without having to engage in grade competition with students specializing in those courses.

The present Pass-Fail grading system is governed by the following conditions:

1. A student with a 3.25 overall grade point average may participate in the College of Liberal Arts and Sciences' program with the permission of his academic unit or in his own academic unit's program if and when established.
2. A student may apply a maximum of 16 quarter hours of Pass credit towards graduation with no more than 8 quarter hours in any one department.
3. The Pass-Fail option is applicable only for elective courses in a student's program. He may not use it for courses satisfying General Studies, or concentration requirements. Should he later change his concentration, work previously taken on a Pass-Fail basis may, with concurrence of the department, be used in fulfillment of the requirements in the newly selected concentration.
4. Pass-Fail courses on the 300 and 400 level count towards satisfying the 64 quarter hours requirement in senior college courses.
5. Hours earned in Pass work will be added to a student's total hours passed but will have no effect on his grade point average. Unsuccessful completion of a course taken on the Pass-Fail basis will result in a *F* grade being recorded on the student's academic record card but will have no effect on his grade point average.
6. A student may change his course registration status from a Pass-Fail to a regular grading point and vice-versa during the first four weeks of a quarter only.
7. Each academic unit participating in the Pass-Fail system has a listing of courses in which registration is permitted on a Pass-Fail basis.

Scholastic Standing

The matter of scholastic standing is quite often of importance to a student both while in school and later when he presents a transcript of his educational record in support of his application for employment or additional schooling.

At the end of each quarter of his attendance a grade report is prepared for each student showing, in addition to the grades earned that quarter, what his scholastic standing is and what his grade point average is for the quarter, and for his over-all record. It is important that a student understands the University's system for computing grade point averages and the various grade point average requirements.

The University computes the student's over-all grade point average for all work taken whether at Southern Illinois University or elsewhere. A student who takes all of his collegiate work at Southern Illinois University will have only one over-all grade point average. A transfer student however will have a University grade point average and an over-all grade point average. These will, in most cases, be different.

The significance of the above can better be understood when studying the general baccalaureate degree requirements. A 3.00 (*C*) average is required for both the work taken at the University and for the over-all collegiate work, as well as for work in the student's area of concentration. Similarly, a student may be placed on scholastic probation or may be scholastically suspended either because of his record at the University or his over-all record.

In computing a student's grade point average all grades of *A*, *B*, *C*, *D*, *E*, *WE*, *WF*, and *ABS* are included in determining the number of *calculated* hours. Corresponding grading symbols from other institutions are included in the same way. Each hour of these grades (1 hour of *A* is worth 5 grade points) is given its numerical grade points, and the total number of calculated hours is then divided into the total number of grade points to determine the student's grade point average. In the case of repeated courses only the hours of the last course and its grade are used except in those rare cases when the number of hours of a repeated course has been reduced since it was originally taken. In that case the repeated work affects only that number of hours of the originally taken work. For example, a student might take a four hour course and receive an *E*. He would then repeat the course but before he does the course might be reduced to a three hour course. If he then received a *C*, this would remove the effect of only 3 hours of the previous *E* work. The 1 hour of *E* would continue to affect the student's grade point average.

Class Standing

Southern Illinois University requires a student to earn 192 quarter hours of acceptable credit in order to receive a baccalaureate degree. For academic classification purposes a freshman is a student who has completed fewer than 48 hours; a sophomore, from 48 through 95; a junior, from 96 through 143; and a senior, 144 or more.

University Recognition of High Scholastic Achievement

In recognition of high scholarship, a Scholastic Honors Day convocation is held each spring. A candidate for a bachelor's degree in June or August who has maintained a grade point average of 4.25 or more for all of his work through the winter quarter of his senior year receives special honor. Each junior having a 4.25 grade point average and each sophomore and freshman having a 4.50 grade point average is also honored at the convocation. Except in the case of a graduating senior, a student must be attending full time to be eligible. A transfer student must have earned the average indicated for work at Southern Illinois University only, as well as for the total record.

Graduating seniors possessing high scholastic averages are so recognized at commencement time by being graduated with honors. Students with 4.90 or higher averages receive highest honors; those with 4.75-4.89 averages receive high honors, and, those with 4.50-4.74 graduate with

honors. This is recorded on the commencement program, on the student's academic record card, and on his diploma.

Successful participation in all-campus honors programs which requires maintenance of appropriate minimal scholastic standards, such as the President's Scholars, receives recognition by notation on the student's academic record and on the diploma. Honors programs less extensive than all-campus in scope but which are designed to attract students with high scholastic potential are also encouraged. Successful participation in programs requiring the maintenance of appropriate minimal scholastic standards is acknowledged by notation on the academic record card and on the diploma.

A rather large number of honorary organizations within the University offer recognition and membership invitations based upon high scholastic achievement. These vary considerably in scope and formality of organization ranging from departmental to program organization. Election or selection to many of these is recognized at the Honors Day Convocation.

Scholastic Program Flexibility for the Student

Through various methods the University permits a student to develop flexibility in his college education so that he might follow a pattern different from that pursued by other students. It is possible for a student to by-pass some of the introductory General Studies courses through a combination of high school subjects and University entrance examination scores. He may also receive credit for courses without having to take the high school course itself. Or the student who must interrupt his attendance on campus may find it possible to continue his educational training through extension or correspondence work.

High School Advanced Placement Program

Through the High School Advanced Placement Program a high school student who is qualified through registration in an advanced placement course in his high school or through other special educational experience may apply for advanced placement and college credit through the Advanced Placement Program of the College Entrance Examination Board, 475 Riverside Drive, New York, New York 10027. To receive credit, a person must earn the grade of 3, 4, or 5. Any interested high school student should write to the University's Admissions Office to learn the current listing of courses for which credit may be earned through this program.

Ordinarily, the maximum credit granted through advanced placement examinations is 16 hours. It is nonresident credit, does not carry a grade, and is not used in computing the student's average grade. Credit granted at another accredited college or university under this plan is transferable to this University up to a maximum of 16 hours. A student may appeal to his academic dean to be granted more than 16 hours.

General Studies Advanced Standing Program

Through the general studies advanced standing system it is possible for a student presenting a combination of high ACT scores and high school course achievement to be eligible for advanced standing consideration. While credit is not granted for the courses in which the student receives

advanced standing credit it does permit the student to take more advanced work in the same General Studies area or to move on to elective work of his own choosing.

Proficiency Examinations

Through its proficiency examination program the University recognizes the importance of providing encouragement for academically talented students. Such students are permitted to make application to demonstrate the mastery of certain courses through proficiency examinations. Applications are made at the Registrar's Office.

The following general rules govern the proficiency examinations for undergraduate credit.

1. Any student who feels qualified to take a proficiency examination is eligible to do so; students scoring in the top ten percent of ACT are particularly encouraged to avail themselves of this opportunity.

2. Credit not to exceed 48 hours, including credit through the College Entrance Examination Board, Advanced Placement Program, may be earned through proficiency examinations. Credit will be nonresident.

3. Upon passing a proficiency examination in a course with a grade of *A* or *B* a student is granted course credit with grades and grade points appropriately recorded. His record will show the name of the course, the hours of credit granted, the grade earned, and a notation "credit granted by proficiency examination." The grade earned will count in the student's grade point average. Passing with a grade of *C* results in the student earning credit. His record will show the name of the course, the hours of credit granted, and a notation, "credit granted by proficiency examination." The grade earned will not be recorded and will not count in the student's grade point average. A grade of *D* or *E* on a proficiency examination results in no penalty to the student. He will not receive credit and his record will show nothing regarding the proficiency examination. However, the proficiency examination grade report form will be filed in the student's folder for reference purposes.

4. A student may not take a proficiency examination for the same course more than one time. Neither may he take a proficiency examination in a course in which he has previously received a grade.

5. No credit granted by proficiency examinations will be recorded until the student has earned at least 16 hours of credit of *C* grade or above in residence at Southern Illinois University.

Extension and Correspondence Credit

The University accepts credit earned through extension or correspondence programs towards the bachelor's degree. A maximum of 96 quarter hours may be so earned. Of the total, not more than 48 quarter hours may be taken in correspondence work.

Southern Illinois University does offer a sizeable number of courses through its Extension Services. It does not operate a correspondence program. Correspondence work is accepted when taken from institutions which are regionally accredited if the grade is of *C* quality or better.

The University offers extension courses throughout Southern Illinois whenever (1) it is apparent that there is a need and potential enrollment to justify scheduling a class, (2) it is possible to obtain a faculty member to host the class, and (3) adequate laboratory and library facilities are available.

In general, extension courses meet one night a week with three-hour courses meeting 2.5 hours per session for 12 weeks, and four-hour courses meeting 16 weeks. Occasionally, four-hour courses will meet 12 weeks with four extra meetings being arranged for during the 12-week period. Graduate courses meet for 12 weeks only.

Registration in extension courses is permitted during the first and second class meetings. Thereafter registration is permitted only with the approval of the dean of University Extension Services. A late registration fee of \$5 is also charged.

Students must have their social security numbers with them in order to complete their registration and must also be prepared to pay their tuition and fees. Tuition is \$6 per quarter hour of credit, and undergraduate students pay a \$1.05 textbook rental fee for each course taken by extension. Graduate students must buy their books or make other arrangements. The instructor may require the purchase of additional books or other materials. Students having valid scholarships issued through the state of Illinois do not pay the tuition charge but must pay the textbook fee. Illinois Military Scholarship holders must pay both the tuition and textbook rental fee.

A person may enroll for extension work on an audit basis provided facilities are available. He must receive permission of the instructor to do so and he must pay the same tuition and fees as though he were registering for credit.

Credit for Military Experience

Students who have served one year or more of active duty and who have received an honorable discharge may receive up to 6 hours of aerospace credit at Carbondale; service of six months to one year may result in 3 hours of freshman aerospace credit; less than six months of active service does not allow any college credit.

Credit will be accepted for USAF courses within the limitations enforced for extension and correspondence work. No credit is allowed for college-level G.E.D. tests. In evaluating credit possibilities based upon formal service-school training programs, the recommendations of the American Council on Education as set forth in the U.S. Government bulletin, *Guide to the Evaluation of Educational Experiences in the Armed Forces*, are followed.

In order to receive credit for military service a veteran must present a copy of his discharge or separation papers to the Registrar's Office.

Scholastic Probation and Suspension System

A student who fails to maintain a satisfactory grade point average will be placed in categories other than Good Standing and may be required to discontinue attendance at the University for a period of time.

For a transfer student, the following scholastic standards apply *both to his academic record compiled only at this University and to his overall academic record.*

Scholastic Warning

A student who is in Good Standing will be placed in Good Standing-Scholastic Warning at the end of a quarter in which he fails to make a 3.00 grade point average provided he has calculated hours and an accumulative grade point average as follows:

1. Fewer than 96 calculated hours and less than a 3.00 grade point average.
2. 96 but fewer than 144 calculated hours and less than a 3.10 grade point average.
3. 144 or more calculated hours and less than 3.15 grade point average. He is returned to Good Standing at the end of a quarter in which he makes a 3.00 grade point average (or better) while on Good Standing-Scholastic Warning.

Scholastic Probation and Suspension

When a student on Good Standing-Scholastic Warning fails to make a 3.00 grade point average for a quarter, he is placed on Scholastic Probation and may be subject to suspension from the University for scholastic reasons at the end of any quarter in which he fails to earn a 3.00 grade point average while on Scholastic Probation.

To ensure that a student is making progress toward the 3.00 grade point average required for graduation he must maintain a progressively improving accumulative grade point average. At the end of each spring quarter a student who has accumulated the number of calculated hours listed below must also have obtained the corresponding accumulative grade point average:

<i>Quarter hours</i>	<i>Required average</i>
48- 95.5	2.60
96-119.5	2.70
120-143.5	2.80
144-159.5	2.90
160-	2.95

Otherwise he will be suspended from the University for scholastic reasons. He may seek reinstatement after a minimum of two quarters interruption but must furnish tangible evidence that additional education can be successfully undertaken.

Graduation Procedures

The academic requirements for the various baccalaureate degrees are listed in Chapter 3. Presented here are the procedures that a student expecting to graduate must follow.

Every degree candidate *should* signify his intention to graduate by making application for graduation no later than the first week of his last quarter in attendance before the desired graduation date. Therefore, a person desiring to graduate in the June commencement who will be in school during the spring quarter should make application for graduation during the first week of the spring quarter. If he finishes his work during the preceding winter quarter, he should apply during the first week of the winter quarter. Similar arrangements should be followed by students completing their work during the fall quarter. The application forms are available in the Registrar's Office.

Every candidate for a degree *must* file written application with the Registrar's office not less than five weeks before the date on which the degree is to be granted. The application process includes the clearance of the graduation fee at the Bursar's Office prior to its filing with the Registrar's Office. He must order his cap and gown through the University Bookstore and should register with the Placement Service. A student

must have a 3.00 grade point average before his application for graduation may be accepted.

In addition to completing the steps for application for graduation, the student is responsible for determining that he is meeting all graduation requirements and that he has no outstanding financial obligation to the University. To assure that a student is meeting the academic requirements, each academic unit provides a graduation check-up service through its academic advisement process, through which the satisfying of academic requirements can be verified. Even though the University does provide an academic check on graduating students, this is done primarily to be sure that it is graduating students who have met the requirements. The advising of the individual student as to his progress is a service provided him and does not relieve the student of his responsibility to make certain that he is meeting the requirements. Each student should check with his academic adviser as to the procedures he should follow in this matter as he approaches graduation.

Graduation exercises are held each year at the end of the spring and summer quarters. A student must attend commencement to graduate, unless he has obtained permission to be graduated *in absentia*. A student can request the latter either through the Registrar's Office or through his dean with the latter official making the decision.

The diploma is mailed to a student shortly after the commencement date. A student who has not met all academic requirements or who has a financial obligation will not be graduated even though he participates in the commencement exercises.

The University has a Graduation Appeals Committee whose function it is to hear a student's petition to be permitted to graduate even though he has not satisfied all University graduation requirements. The committee hears only those cases involving University requirement. Appeal relative to a concentration or academic unit requirement is through the appropriate administrative official.

Ordinarily, the Graduation Appeals Committee will give consideration to an appeal only if there is tangible evidence that the matter at issue is of an unusual nature and that it has resulted due to conditions beyond control of the student. Appeal is initiated through the Registrar's Office.

Related Academic Information

Unit of Credit

Southern Illinois University operates on the quarter system. Therefore, references to hours of credit mean quarter hours rather than semester hours. One quarter hour of credit is equivalent to two-thirds of a semester hour. One quarter hour of credit represents the work done by a student in a lecture course attended fifty minutes per week for one quarter, and, in the case of laboratory and activity courses, the stated additional time.

Academic Load

The normal academic load for a student is 16 hours. The maximum is 18 hours.

A student with a 4.25 grade point average or above for the preceding quarter may be allowed by the head of his academic unit to take as many as 21 hours. In no case may a student carry, or be credited with, more than 21 hours in any quarter.

A student on scholastic probation may not take more than 14 hours without approval of the head of his academic unit. A student employed full-time may not register for more than 8 hours.

The question of what constitutes full-time attendance is one that is often asked but for which there is no single over-all answer. For enrollment reporting purposes, 12 or more quarter hours distinguishes between full- and part-time attendance. However, a number of situations call for different hourly classifications. For example, a student registered for 11 hours pays full tuition and fees. Also, a student attending the University under a scholarship loan, or other type of program requiring full-time enrollment should check with the office administering the program to make certain that he is meeting the requirements of his specific program. For example, Public Law 358 (the new GI Bill) requires 14 hours on the undergraduate level for full time, 10 to 13 is considered three-quarter load, and 7 to 9 hours, half load. A student concerned with Selective Service on the undergraduate level needs to carry 12 hours to be considered full time. However, for Selective Service purposes, a student must also be making satisfactory progress. Therefore, he needs to accumulate 48 passing hours each year. Because of this, he must consider 12 hours as only a minimum load for full-time purposes with 16 hours per quarter as the average load he must maintain throughout the year. Further information on both Public Law 358 and Selective Service is available in the Registrar's Office.

3 / Academic Programs

DEGREES OFFERED

Southern Illinois University grants the following degrees.

Associate

Associate in Arts
Associate in Business
Associate in Technology

Advanced

Master of Arts
Master of Business
Administration
Master of Fine Arts
Master of Music
Master of Music Education
Master of Science
Master of Science in Education
Doctor of Philosophy

Baccalaureate

Bachelor of Arts
Bachelor of Science
Bachelor of Music
Bachelor of Music Education

In addition to the above degrees, Southern Illinois University offers undergraduate courses in preprofessional and certification areas and a graduate program leading to a sixth year specialist certificate in education.

For information concerning master's degrees or the Doctor of Philosophy degree, refer to the Graduate School Catalog or direct inquiries to the dean, Graduate School, Southern Illinois University, Carbondale, Illinois 62901.

DEGREE REQUIREMENTS

Associate Degree

Each candidate for an associate degree must complete a minimum of 96 hours of credit in approved courses. Each student must maintain a *C* average. The degree granting unit for the associate degree is the Division of Technical and Adult Education. For information concerning this degree refer to the Division of Technical and Adult Education bulletin.

Baccalaureate Degree

Every bachelor's degree candidate must meet the University's requirements and the requirements of his academic unit. The specific requirements in General Studies and in each college and school are listed later.

Each candidate for the degree must complete a minimum of 192 hours of credit in approved courses. The General Studies requirements total 90 hours. Also, at least 64 hours must be in senior (i.e., 300 or 400) college courses. Each student must have a *C* average, and grades not lower than *C* in subjects aggregating at least three-fourths of the work. A *C* average

is required in the area of concentration.¹ These averages are required for credit made at this University as well as for the total record.

To receive a bachelor's degree from Southern Illinois University a student must either present a total of three years work (144 hours) earned at Southern Illinois University or complete the last year in residence. The last year shall be considered as 48 quarter hours of which not fewer than 36 shall be of senior college level. Twelve of the 48 may be earned in extension at Southern Illinois University.

A student who received his first bachelor's degree from Southern Illinois University and who desires a second bachelor's degree must complete 45 hours in addition to those required for the first degree and must fulfill the requirements for the second degree. Of these 45 hours, a minimum of 15 must be taken in residence at the University, and a maximum of 15 may be acquired in extension and correspondence courses. At least 30 hours must be in senior college courses. If a student received his first bachelor's degree from another university, 48 hours are required to fulfill the residence requirement for the second bachelor's degree, two-thirds of which must be in senior college courses.

The state of Illinois requires that American patriotism and the principles of representative government, as enunciated in the American Declaration of Independence, the Constitution of the United States of America, and the Constitution of the State of Illinois, and the proper use and display of the American flag shall be taught in all public schools and other educational institutions which are maintained in whole or in part by public funds, and that no student shall receive a certificate of graduation without passing a satisfactory examination upon such subjects.

Students preparing to teach must satisfy the certification requirements of the state in which they plan to teach. Illinois requirements are described in the Elementary Education and Secondary Education concentration sections later in this chapter.

University Convocation

All students entering the University as beginning freshmen must satisfactorily complete three quarters of University Convocation during their first year, or in any case prior to graduation. Exceptions are (1) students who transfer from other institutions and re-entering students who started collegiate work in the Vocational-Technical Institute, (2) students who are more than twenty-five years of age at the time of first registration at Southern Illinois University, (3) students who carry fewer than 12 hours each quarter during their first eight quarters, and (4) students enrolled in the Vocational-Technical Institute.

Preprofessional Programs

Preprofessional students may, subject to certain conditions, obtain a bachelor's degree after three years' work (144 quarter hours) at Southern Illinois University and one or more years' work in a professional school. During their three years of residence at Southern Illinois University they need to have completed all requirements other than elective hours for the bachelor's degree which they are seeking.

In some cases the completion of concentration requirements is possible by their taking certain courses at the professional school, but this is per-

¹ The areas of concentration are described later in this chapter.

mitted only upon the prior approval of the appropriate divisional head. Also, there needs to be completion of at least one year of professional work with acceptable grades in a Class A medical school, a Class A dental school, a Class A veterinary school, an approved law school, an accredited medical technology school, a hospital plan approved by the University or an accredited school of osteopathy. In all cases, all University graduation requirements must be met. It is advisable for a student interested in this program to make his decision to seek a bachelor's degree before entering the professional school so that any questions may be clarified at an early date.

General Studies

The General Studies curriculum is divided into five major areas which are listed below with the numbers of hours required.

Area A Man's Physical Environment and Biological Inheritance . .	22
Area B Man's Social Inheritance and Social Responsibilities	22
Area C Man's Insights and Appreciations	22
Area D Organization and Communication of Ideas	18
Area E Health and Physical Development	6

Within each of the five areas, courses are structured in a manner so as to offer the student course sequences within the various levels. The student who has selected his area of concentration at the time he takes the General Studies courses is assisted in determining the proper courses to take by consulting the curriculum guides which he may obtain from his academic adviser.

Area A Man's Physical Environment and Biological Inheritance

	HOURS
First-level courses	8
Second-level continuation	8
Third-level advanced courses	6
Total hours	22

The first-level course may be either 101-8 or 110-8. Introduction to Physical Science 110-8 or the Earth and its Environment. Introductory Biology 201-8 or Introductory Environmental Biology 210-8 are the second-level continuation courses. The third-level advanced courses may be selected from those courses in Area A above 299.

Area B Man's Social Inheritance and Social Responsibilities

First-level courses	8
Second-level continuation	8
Third-level advanced courses	6
Total hours	22

The first-level basic sequence may be either 101-8 Survey of Western Tradition, or the anthropology-geography sequence 102-8 Man and His World. The second-level continuation may be either 201-8 Behavior and Society, or 211-8 Political Economy.

The third-level advanced courses may be selected from those courses in Area B numbered above 299.

Area C Man's Insights and Appreciations

First-level courses	9
Second-level continuation	7
Third-level advanced courses	6
<i>Total hours</i>	<u>22</u>

The first-level courses may be either 110-9 An Introduction to Western Humanities, or 102-3 Problems of Moral Decision, 103-3 World Literature for Composition, and either 100-3 Music Understanding or 101-3 Art Appreciation.

The second-level continuation must include one course from this group of courses: 200 (speech), 201 (drama), 203 (theater), 204 (art), 205 (design), or 206 (music) and one course must be taken from these courses: GSC 202 (poetry), 207 (philosophy), 208 (logic), 209 (modern literature), or 210 (fiction).

The third-level advanced courses may be selected from those courses in Area C numbered above 299.

Area D Organization and Communication of Ideas

Required composition and speech	9
Either a foreign language sequence or a basic mathematics sequence	9
<i>Total hours</i>	<u>18</u>

To assure composition competency, some upper division academic units require a C average in GSC 103 and GSD 101, 102. A student may determine which units have this requirement by referring to college and school requirements listed later in this chapter.

Area E Health and Physical Development

First-level physical education	3
Second-level health education	3
<i>Total hours</i>	<u>6</u>

The physical education requirement for women may be satisfied by taking three courses within a wide variety of activity-type courses offered. Specifically required of men is 102-1, Physical Fitness plus 2 additional hours in Area E.

The second-level health education requirement is satisfied by taking 201-3, Healthful Living.

Flexibility in Meeting General Studies Requirements

Considerable latitude is permitted the student in meeting General Studies course requirements. The University believes in a strong, well rounded general education program but does not accept the idea that every student must take the same courses or program in meeting the objective. Alternate routes are, therefore, provided within the General Studies framework. These alternatives consist of providing different course sequences in a number of the areas, advanced standing, proficiency examinations, substitution of departmental courses for General Studies courses,

and waiver of third-level courses. Through these methods, a maximum of 90 hours of General Studies course work can be reduced.

The Transfer Student and General Studies

A transfer student who expects to graduate from Southern Illinois University must meet the General Studies requirements. It is recognized that in doing so he might experience difficulty in satisfying the specific course requirements within the General Studies program. Therefore, he is required to meet all General Studies requirements, but he may do so through different course routes.

A transfer student must complete 22 hours in Areas A, B, and C. If he presents 22 acceptable hours in an area at the time of transfer and the work has been taken in a minimum of three specific fields included within that area at this University he will be considered as having met the requirements of that area. If he presents fewer than 22 hours within an area, he will be required to take sufficient hours to total 22 hours. The work will need to be taken in General Studies courses and is to be non-duplicative of work already taken. If he presents no work in one of these areas, he is required to take the work in that area on the same basis as does a student who entered Southern Illinois University originally.

In Area A, there is the further provision that the work in three minimum subject areas must include work in both the physical and biological sciences. A transfer student is granted the same third-level waiver provision as are the native students in the area of his specialization so that he may satisfy one of the Areas A, B, or C by taking 16 hours in three specific fields of study rather than by taking 22 hours.

A transfer student is held to the same hour and course distribution requirements as are native students in Areas D and E.

Additional information concerning admission of a transfer student and the evaluation of transfer credit can be found in the sections of this catalog pertaining to those specific subjects.

School of Agriculture

The School of Agriculture offers the following concentrations leading to the Bachelor of Science degree.

Agricultural Education	Forest Resource
Agricultural Industries	Management
Agricultural Economics	Forest Recreation and
Agricultural Business	Park Management
Agricultural Mechanization	Outdoor Recreation Resource
Agriculture, General	Management
Animal Industries	Plant Industries
Production	Production
Science	Science
Forestry	

As precollege preparation of high school students for study of agriculture and forestry, it is recommended that the following be included: four units of English, two to four units of mathematics (algebra, geometry, advanced mathematics); two to three units of science (biology, chemistry, physics); and two to three units of social studies. Remaining units might well include agriculture.

For transfer students wishing to pursue a concentration in one of the

agricultural or forestry areas, courses taken prior to entering Southern Illinois University should include a distribution in the physical and biological sciences, social sciences, and humanities. In addition a course in speech and appropriate sequences in English composition and college algebra should be included.

A student planning to take preprofessional courses in veterinary science or dairy technology should register in the School of Agriculture when eligible.

The School of Agriculture has no school-wide requirements other than the University requirements.

School of Business

The School of Business offers the following concentrations leading to the Bachelor of Science degree.

Accounting	Behavioral Science—
Economics	Personnel Management
Finance	Management Science—
Financial Management	Management Systems
Financial Institutions	Marketing
Management	Secretarial Studies

Secondary concentrations are not available in business areas. A student in the school may prepare for teaching at the secondary level by including in his studies certain professional courses offered by the College of Education.

Pre-College Preparation. High school and preparatory school students who are planning to enroll in the School of Business are advised to follow a college preparatory program which includes three (preferably four) units of both English and mathematics. It is also suggested that a substantial portion of the remainder of their study programs include courses in basic academic subject areas such as foreign languages, humanities, the sciences and social studies.

General Studies Requirements for Business Students. Students who intend to enter the School of Business must take Mathematics 111a and 111b to satisfy the first-level Area D requirement. In addition, GSD 110 should be taken prior to entering the School of Business. GSB 201b and GSB 201c are also required courses in School of Business programs.

Requirements normally taken by students during the sophomore year include Mathematics 150a, Economics 214, 215 and Accounting 251-8 and 261. These courses are initiated while one is enrolled in General Studies.

Professional Business Core. The professional business core, required of all School of Business students consist of GSB 201b and 201c, GSD 110, Accounting 251-8, 261, Economics 214, 215, 308 or 408, Finance 320, 371 or 473, Management 340, 481, and Marketing 301.

Special Degree Requirements. Students who desire a degree from the School of Business must satisfy, in addition to University degree requirements, the following:

1. Competency in English as demonstrated by having completed GSD 101, 102 and GSC 103, or their equivalents, with a grade of C or higher in each of the latter two courses.
2. Competency in business and economics as demonstrated by an overall grade point of 3.00 C or better in all college and university business and economics courses taken, and in addition, all courses

taken at Southern Illinois University that are included in the professional business core and the area concentration requirements.

School of Communications

The School of Communications offers the following concentrations leading to the Bachelor of Science degree.

Journalism	Speech
Photography	Speech Pathology and Audiology
Radio-Television	Theater

The specific requirements for the various concentrations offered by the School of Communications are listed later in this chapter.

There are no school-wide requirements for a degree other than the University requirements.

College of Education

The College of Education offers the following concentrations leading to the Bachelor of Science Degree.

Agricultural Education	Kindergarten-Primary Education
Art	Language Arts
Biological Sciences	Latin
Botany	Mathematics
Business Teacher Education	Music
Chemistry	Physical Education
Economics	Physics
Elementary Education	Recreation and Outdoor Education
English	Russian
French	Secondary Education ¹
General Science	Social Studies
Geography	Spanish
German	Special Education
Government	Speech
Greek	Speech Pathology and Audiology
Health Education	Technical and Industrial Education
History	Theater
Home Economics	Zoology
Journalism	

The College of Education also grants the Bachelor of Music Education degree.

Supervised student teaching is conducted in cooperating public schools. The College of Education requires 12 to 16 hours of student teaching for the Bachelor of Science degree.

Students who wish to become principals or supervisors in the public schools take graduate work in the Department of Educational Administration and Foundations. The department's major emphasis is on graduate work, but it also participates in providing background for elementary and high school teachers.

Students preparing to teach in the public schools of Illinois should be informed that requirements for the Standard Elementary School Certificate are listed under Elementary Education; those for the Standard High

¹ This is not a concentration. Persons planning to teach in secondary schools should refer to this section for a listing of concentrations and secondary concentrations.

School Certificate are listed under Secondary Education; those for the Standard Special Certificate are listed following high school certification.

Students planning to teach on the early childhood and elementary levels register in the College of Education. Most students planning to teach on the high school level also register in this college. However, it is possible for a student to be registered in one of the other colleges or schools and meet the state requirements for a Standard High School Certificate by using as his electives certain prescribed courses in the College of Education. This is also true in the case of those seeking to qualify for a Standard Special Certificate.

Students qualifying for teaching certificates in Illinois should also know that no certificate issued after July 1, 1953, will be renewed for the first time unless the person holding the certificate passes an examination to the satisfaction of the certificating authority upon the provisions and principles of the Constitution of the United States and of the state of Illinois.

School of Fine Arts

The School of Fine Arts offers the following concentrations leading to the Bachelor of Arts degree.

Art

Design

The School of Fine Arts also offers a concentration in music leading to the Bachelor of Music degree.

There are specific requirements for admission to the concentrations in the School of Fine Arts. Students considering enrolling in the school should make appointments with the chief academic adviser to determine eligibility for the Studio and Studio Crafts specializations for the designated concentration.

School of Home Economics

The School of Home Economics offers a concentration in home economics leading to the Bachelor of Science degree. Within this concentration, a specialization may be chosen from the following.

Apparel Design

Clothing and Textiles

Merchandising

Consumer Services in Business

Dietetics

Extension

Family Services Consultant

Foods in Business

Food and Nutrition Science

Institution Management

Interior Design

Pre-School Program

Teaching Vocational Homemaking

The specific requirements for each of these specializations appear later in this chapter.

There are no school-wide requirements for a degree other than the University requirements.

College of Liberal Arts and Sciences

The College of Liberal Arts and Sciences offers the following concentrations leading to the Bachelor of Arts and Bachelor of Science degrees.

Anthropology

Art ¹

Asian Studies ²

Biological Sciences ^{3 4}

Botany

Chemistry

East European Studies ²	Geology	Physics
Economics ¹	Government	Physiology
English	Health Science ^{3 4}	Psychology
Foreign Languages	History	Religious Studies ²
French	Inter-American Studies ^{3 4}	Russian Studies ²
German	Linguistics ²	Sociology
Latin	Mathematics	Speech ¹
Russian	Microbiology	Theater ¹
Spanish	Music ¹	Zoology
Geography	Philosophy	

Students who began their collegiate training in the fall 1968 or thereafter and who desire a degree from the College of Liberal Arts and Sciences must satisfy the following requirements.

1. Competency in English as demonstrated by having completed courses GSD 101, 102, and GSC 103, or their equivalents, with grade average of C or better.
2. Successful completion of requirements in an approved area of concentration.
3. Successful completion of two years of a foreign language and one year of mathematics, or two years of mathematics and one year of a foreign language.

The one year foreign language requirement can be met by (a) passing a 9-hour 100-level sequence in one language; (b) completion of two years in one language in high school with no grade lower than C and achieving a satisfactory score on a standardized test in that language; or (c) completion of three years in one language in high school with no grade lower than C. The two year requirement can be satisfied by (a) passing a 9-hour 200-level sequence in one language; (b) completion of three years of one language in high school with no grade less than C and achieving a satisfactory score on a standardized test in that language; or (c) completion of four years in one language in high school with no grade below C.

The one year mathematics requirement can be met by (a) passing GSD 107-8; (b) passing Mathematics 111-10; or (c) completion of three years of high school mathematics with no grade less than C and achieving a satisfactory score on the University's Mathematics Placement Test. The two year requirement can be satisfied by passing Mathematics 150-10.

PREPROFESSIONAL COURSES

A student planning to take preprofessional courses in any of the following areas should, after completing General Studies, register in the College of Liberal Arts and Sciences. A course of study called preprofessional does not lead to a degree at Southern Illinois University (refer to section on preprofessional programs mentioned earlier in this chapter):

Dentistry	(3 or 4 years)	Pharmacy	(1 to 4 years)
Law	(3 or 4 years)	Physical Therapy	(2 or 3 years)
Medical Technology	(2 or 3 years)	Public Health	(3 or 4 years)
Medicine	(3 or 4 years)	Theology	(2 to 4 years)
Occupational Therapy	(2 or 3 years)	Veterinary Science	(3 or 4 years)

¹ These are liberal arts concentrations, not professional concentrations.
² Only secondary concentrations are allowed in these fields.
³ Those who concentrate in these fields need no secondary concentrations.
⁴ No secondary concentrations are allowed in these fields.

School of Technology

The School of Technology offers the following concentrations leading to the Bachelor of Science degree.

Engineering	Industrial Technology
Engineering Technology	Technical and Industrial Education

Specific requirements are listed for the various concentrations offered by the School of Technology later in this chapter.

There are no school-wide requirements for a degree other than the University requirements.

SUBJECT CONCENTRATIONS LEADING TO A DEGREE

The fields of study in which Southern Illinois University offers course work leading to a bachelor's degree follow in alphabetical order rather than by college or school. Included in this section is information on African studies, nursing, secondary education, and student teaching.

Accounting	Geography	Physics
Agricultural Education	Geology	Physiology
Agricultural Industries	German	Plant Industries
Agriculture, General	Government	Psychology
Animal Industries	Health Education	Radio-Television
Anthropology	Health Science	Recreation and
Art	History	Outdoor Education
Asian Studies ¹	Home Economics	Religious Studies ¹
Biological Sciences	Industrial Technology	Russian
Botany	Instructional	Russian and East
Business Teacher	Materials ¹	European Studies ¹
Education	Inter-American	Safety and
Chemistry	Studies	Driver Education ¹
Community	Journalism	Secretarial Studies
Development ¹	Kindergarten—	Social Studies ³
Design	Primary Education	Sociology
Earth Science ¹	Language Arts ¹	Spanish
Economics	Latin	Special Concentration
Elementary Education	Linguistics	Special Education
Engineering	Management	Speech
Engineering	Marketing	Speech Pathology
Technology	Mathematics	and Audiology
English	Microbiology	Technical and
Finance	Music	Industrial
Forestry	Philosophy	Education
French	Photography	Theater
General Science ²	Physical Education	Zoology

Fields of study for students seeking one-year certificates or two-year associate degrees are included in the Division of Technical and Adult Education issue of the *Southern Illinois University Bulletin*.

¹ Secondary concentration only.

² Not described in this catalog.

³ Mentioned under secondary education, but not described in this catalog.

Abbreviations Used in this Chapter

Three-digit numerals are used to identify specific courses. The first numeral of the three indicates the level of that course. A letter following an identification number indicates a *part* of a course (*a* means first part, *b* means second part, etc.). A numeral separated from the identification number by a dash indicates the number of hours required in the course. For example, Forestry 365-10 indicates a third-level course of 10 hours in the Department of Forestry, and Forestry 365a,b indicates the first two parts of the course.

The five areas of General Studies are referred to as GSA, GSB, GSC, GSD, and GSE. The three-digit numerals following these abbreviations function similarly to those noted above. Numerals 1, 2, or 3 following one of these abbreviations and separated by a dash indicate the level requirement in that area. For example, GSA-3 indicates the third-level requirement in General Studies Area A.

Numerals in parentheses in columns of figures pertain to quarter hours which satisfy more than one requirement. They are in parentheses to avoid their being added into the total of the column, which would be a duplication of hours required. For example, under Agricultural Education, below, GSA 101 satisfies part of the General Studies requirements and contributes 8 hours toward the 84 hours required. It also satisfies one of the requirements for concentration in agricultural education but does not contribute to the printed total of 73 hours.

Accounting

Accounting is the means by which the many transactions of business are analyzed, recorded, presented, and interpreted. The ability to analyze, present, and interpret is not acquired easily; it is one that takes thorough and serious study.

The accounting courses are designed to develop those abilities which lead to professional positions in cost accounting, auditing, income tax, financial statement analysis, and general financial accounting. The operation of a business and its financial condition are of interest to its owners, to its employees, to its creditors, to the various governmental bodies, and to the public.

Accounting courses cover four basic areas of study: theory, cost accounting, tax, and auditing. In addition to the four basic areas, special courses are offered in governmental accounting, accounting systems, and Certified Public Accountant problems. Although individuals trained in accounting might work in private industrial firms, public accounting firms, governmental agencies, or in college teaching, the four basic areas in accounting are needed as background. Those individuals desiring to engage in public accounting in Illinois should familiarize themselves with the Illinois laws and regulations covering the certification of public accountants. The regulations are published by the Committee on Accountancy, University of Illinois, Urbana, Illinois 61801.

Bachelor of Science Degree, SCHOOL OF BUSINESS

General Studies Requirements (Waive GSB-3.)	84
Professional Business Core	42
GSB 201b,c, GSD 110	(7)
Accounting 251-8, 261	12

Economics 214, 215, 308, or 408	6	
Finance 320, 371 or 473	9	
Management 340, 481	8	
Marketing 301	7	
<i>Requirements for Concentration in Accounting</i>		39
GSB 102-8, 211b	(12)	
Accounting 331, 341, 351-8, 456	20	
Accounting 432, 442, 453, (choose at least two)	8	
Accounting 355, 415, 458, 459, 461 (Choose one unless three were chosen above.)	3-4	
Economics 315	4	
Finance 372 or 373	4	
<i>Electives</i>		27
<i>Total</i>		192

Secondary Concentration

Requirements for a 24-hour secondary concentration in accounting consist of 251-8, 261-4 and 8 hours of accounting courses numbered 300 or above, and Management 170 or 340.

African Studies

Although a number of courses concerned with Africa are offered, they are insufficient in hours of credit to permit a secondary concentration. The African Studies Committee can give information about the courses available and can also supply advice and assist research on African subjects with its bibliographical and documentary materials. Address the chairman of the committee, Department of Geography, Southern Illinois University, Carbondale, Illinois 62901.

Agricultural Education

In agricultural education, completion of a four-year course of study leads to certification as a teacher of vocational agriculture. Courses in both the School of Agriculture and the College of Education are included. A student may receive the Bachelor of Science degree and take at least part of the additional courses at the graduate level to qualify to teach Vocational Agriculture.

Bachelor of Science Degree, SCHOOL OF AGRICULTURE

<i>General Studies Requirements</i> (Waive GSB-3.)		84
<i>Requirements for Concentration in Agricultural Education</i>		72
GSA 101	(8)	
GSB 211a	(4)	
GSD 103, 107a,b, or 110	(12)	
Agricultural Industries: agricultural economics courses	12	
Agricultural Industries: agricultural mechanization courses	12	
Animal Industries	12	
Plant Industries	12	
Electives in technical agriculture	24	
<i>Professional Education Requirements</i>		34
GSB 201c	(4)	

Agricultural Industries 210, 309, 312-12	19
Two of the following: Agricultural Industries 311, Educa- tional Administration and Foundations 355, Guidance 422, Instructional Materials 417, Secondary Education 407, 440	7
Guidance 305	4
Secondary Education 310	4
<i>Elective</i>	2
<i>Total</i>	192

Agricultural Industries

Work is offered in agricultural industries with two major options (a) 60 hours in agriculture and (b) 48 hours in agriculture. In the 60-hour option a student has two alternatives, either a concentration in agricultural economics or one in farm mechanization. This option provides a broader training in agriculture. In the 48-hour option he may have a secondary concentration in either economics or business. This option provides a broader training in economics and business.

In agricultural economics courses are offered in the following fields: farm management, farm credit, agricultural prices, agricultural marketing, cooperatives, and farm policy.

In farm mechanization courses are offered in four areas: farm power and machinery, rural electrification, farm structures, and soil and water conservation.

Bachelor of Science Degree, SCHOOL OF AGRICULTURE

General Studies Requirements (Waive GSA or GSB-3.) 84

Two options are available:

	60 HOURS	48 HOURS
GSB 314	(3) ¹	(3) ¹
Agricultural Industries 204, 350, 354	(8) ¹	(+ 8) ¹
Other Agricultural Industries Courses ²	16	12
Animal Industries 121, 315	9	9
Plant Industries 109 and 301, 264 or Forestry 360	8	8
Electives in Agriculture	12	4
Total in Agriculture	(7) + 53	(7) + 41
Business and Economics Courses ²	16	24
GSB 201b or c	4	4
Mathematics, statistics, and accounting	4	12
Electives	31	27
Total	192	192

¹ These courses also used to meet General Studies requirements.
² Certain specific courses are required depending upon student area of concentration under each of these options.

Agriculture, General

General agriculture, intended for students seeking broad backgrounds in

agriculture, is probably the best agricultural plan for students who have not chosen a professional area for emphasis.

Students gain basic preparation for many of the agricultural careers: general farming, agricultural services, agricultural extension, agricultural communications, agricultural business, agricultural industry, and agricultural production. Students who initially enroll in general agriculture may transfer to other agricultural areas of concentration or they may continue in general agriculture and select courses from various fields.

Bachelor of Science Degree, SCHOOL OF AGRICULTURE

<i>General Studies Requirements</i> (Waive GSB-3.)	84
<i>Requirements for Concentration in General Agriculture</i>	62
GSA 101b, or Chemistry 111a or b	(4) + 1
GSB 211a	(4)
GSD 103, 110 or Math 111b, 111a	(11)
Agricultural Industries 114 or 350 or 354, and others	12
Animal Industries 105 or 125 or 231, 315, and others	12
Forestry or Agricultural Industries (Mechanization)	3-5
Plant Industries 103, 264 or 309, and others	12
Electives in agriculture	20-22
<i>Electives</i>	46
<i>Total</i>	192

Animal Industries

Instruction, research, demonstration, and consultation are provided in the fields of livestock, dairy, and poultry production, veterinary science, and dairy technology. Courses are offered in all phases of animal production, animal nutrition, and livestock management.

The student has opportunity to select courses in other areas of agriculture or related fields such as business, biology, or physical sciences, thus being able to include the agronomic, agricultural economic, and agricultural engineering phases of agriculture or business as related to animal production.

Bachelor of Science Degree, SCHOOL OF AGRICULTURE

<i>General Studies Requirements</i> (Waive GSB-3.)	84
<i>Requirements for Concentration in Animal Industries</i>	69
(For an AGRICULTURAL SCIENCE option, required hours are in the second column.)	
Animal Industries 105, 125, 231 (any two)	8 8
Animal Industries 315, 332, 381	9 9
Animal Industries electives	31 19
Agricultural Industries 354	3 3
Plant Industries 103	4 4
Electives in School of Agriculture	5 5
Chemistry 240 or 305a or 341a (organic)	4 4
Science electives	4 16
<i>Electives</i>	39
<i>Total</i>	192

Anthropology

All the major divisions of anthropology are covered, viz. archaeology, ethnology, social anthropology, linguistics, and physical anthropology. Faculty members of the department have had field experience in North, South, and Central America, the Caribbean, Europe, Africa, and the Pacific. Faculty specialization and field experience in northern Mexico are especially strong. Emphasis is also given to the anthropology of Southern Illinois with special attention to archaeological studies.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements (Waive GSB-3. Includes GSD 107-8.)	83
Supplementary Two Years College Requirement in FL/Mathematics	
FL: GSD FL-9 and FL 201-9	18
Requirements for Concentration in Anthropology	64
Anthropology 300 or 402, 303 304, 9 hours from 305 and/or 306, 401 or 413, 404, 405, 408, 409, and 10-11 hours of electives at the 400-level in Anthropology	46
Eighteen hours from at least three of the following: geography, geology, philosophy, psychology, sociology, and zoology	18
Secondary concentration	24
Electives	3
Total	192

Students are expected to familiarize themselves with the contents of certain basic anthropological publications, whether these fall within the required courses or not. A list of these publications will be provided, and the student is expected to work out a reading course of study under the supervision of his adviser.

SECONDARY CONCENTRATION

A secondary concentration in anthropology consists of 300, 304, 6 hours of 305a,b, or c, or 306a,b, or c, 400, 409, and 6 hours of electives in courses above the 300 level. GSB 102a-4, or anthropology 275d-4, or consent of instructor is required to enroll in 300-level courses or above.

Art

Undergraduate offerings in art provide introductory and specialized experiences. The course of study offered, leading toward the Bachelor of Arts degree in art, requires 111 hours in art with an emphasis on a professional degree.

Candidates for the Bachelor of Arts degree may select concentrations in painting, sculpture, printmaking, drawing, metalsmithing, ceramics, weaving, or art education. Electives, courses outside of degree requirements, are provided so that the student may encounter additional areas of concern beyond his concentration.

The University reserves the right to withhold an example of the work of each student in each class. Such works become a part of a permanent collection from which exhibitions may be prepared.

The department is staffed by a faculty of artist-teachers, many of whom

have national reputations resulting from their participation in major exhibitions and invitational shows throughout the country. There is also an *Artist-in-Residence* program which annually invites internationally known artists to teach, exhibit, and lecture. The student can expect to receive excellent training in all of the applied and theoretical branches of art.

Requirements for the Bachelor's Degree

Every degree candidate must meet the University's requirements and the requirements of his academic unit. Each candidate must complete a minimum of 195 credits in approved courses.

No undergraduate student will be allowed to take any one course, in the Department of Art, for more than four hours of credit in a given quarter without permission from the chairman.

A student who expects to elect the studio or the studio-crafts concentration must have the approval of the faculty of the Department of Art. His past work will be evaluated and he must give evidence of the necessary level of competence to pursue this program. Students who do not meet this criteria may elect the concentration in art education or art history-aesthetics in the School of Fine Arts or art history-aesthetics in the College of Liberal Arts and Sciences.

Secondary Concentration

A secondary concentration in art for the undergraduate student is offered. A total of 24 hours constitutes a minor. A total of 12 hours must be taken in Art 100. The student then may elect to take any Art 200 or Art History 225 offerings. He also may elect to take any 300-level craft course to complete the 24 hour requirement.

Bachelor of Arts Degree, SCHOOL OF FINE ARTS

Students concentrating in art should select one of the following fields of specialization by the end of his sophomore year: painting, prints, sculpture, metalsmithing, ceramics, weaving, and art education. He must complete a minimum of 24 hours in art history, unless he specializes in art education.

Studio

<i>General Studies Requirements</i> (Waive GSC-3.)	84
<i>Requirements for Concentration in Art</i>	111
Art 100-12, 200-12	24
Art 225-9, electives in art history	24
Art drawing 341-8	8
Art electives	23
Art specialization	32
Painting-320-12, 401-12, 406-12	
Prints-358-12, 410-12, 416-12	
Sculpture-393-12, 405-12, 493-12	
<i>Total</i>	195

Studio Crafts

<i>General Studies Requirements</i> (Waive GSC-3.)	84
<i>Requirements for Concentration in Art</i>	111
Art 100-12, 200-12	24

Art 225–9, electives in art history	24
Art electives	31
Art specialization	32
Metalsmithing—332–12, 430–12, 436–12	
Pottery—302–12, 420–12, 426–12	
Weaving—385–12, 440–12, 446–12	
Total	195

Art Education

General Studies Requirements (Waive GSC–3.)	84
Requirements for Concentration in Art (Education)	88
GSC 340b, 340c	6
Art (studio) 100–12, 200–12, 302, 332, 385	36
Art (history) 225–9	9
Art (education) 300a or 365, 306, 307, 308	13
Art electives	24
Professional Education Requirements	28
Guidance 305	4
Secondary Education 310, 352–12 to 16	16–20
Education Electives	4
Total	200

Art History—Aesthetics

General Studies Requirements (Waive GSC–3.)	84
Requirements for Concentration in Art (History-Aesthetics)	63
GSD Foreign Language	9
Art 100	12
Art Studio Elective	6
Art History-Aesthetics 225–9, GSC 340, 341, 342–9	18
Art 447ABC, 448ABC, 449ABC, 482ABC, 483ABC, to total 18 hours in any combination	18
Secondary Concentration	24
Electives	21
Total	192

Asian Studies

Secondary Concentration

A secondary concentration in Asian studies is offered within the College of Liberal Arts and Sciences. To qualify, one must present a minimum of 30 hours to be chosen from at least three areas from a list of offerings approved by the Committee on Asian Studies. Not more than 12 hours may be taken in any one area. The approved courses cover areas of instruction in agriculture, anthropology, art, economics, foreign language, geography, government, history, and philosophy.

Biological Sciences

The course of study is designed to give the student a broad, yet intensive, education in the biological sciences preparatory for various professions, especially the teaching of biology at the secondary level. This work may

be taken in either the College of Liberal Arts and Sciences or the College of Education. The science requirement for this concentration is the same in both colleges.

The biological sciences curriculum consists of courses selected from General Studies Area A and the Departments of Botany, Microbiology, Physiology, and Zoology. A student selecting biological sciences as his concentration does not need to take a secondary concentration. Core courses required in the biological sciences are Biology 305, 306, 307, 308. These courses may substitute for 16 hours of courses listed among the requirements for concentration in biological sciences. In addition, work in chemistry and mathematics is required. Students should consult with their adviser for additional information.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements</i> (Waive GSA-3.)	84
<i>Supplementary Two-Year College Requirements in FL/Mathematics</i>	18-20
GSD FL-9, GSD 107-8 (or Mathematics 111-10)	
Foreign Language 201-9 or Mathematics 150-10	
<i>Requirements for Concentration in Biological Sciences</i>	75
GSA 201-8 or 210-8, 312	(8) + 3
GSA 301 and Botany 320 or Physiology 315-15	9 or 15
GSD 107-8 or Mathematics 110-10	(8-10)
GSA 303	3
Botany 300, 301	8
Botany 315 or Zoology 401	4 or 5
Botany 341 or Zoology 310	3 or 5
Chemistry 121-10 or 110-5, 240-5, 350-5	10-15
Electives from Botany, Microbiology, Physiology, and Zoology	3-12
Microbiology 301, 302	10
Zoology 102, 103, and 402 or 403	14
<i>Electives</i>	13-15
<i>Total</i>	192

Bachelor of Science Degree, COLLEGE OF EDUCATION

If the degree is to be in the College of Education, the student must satisfy all requirements of that college for the Bachelor of Science degree. The requirements for a concentration are the same in both colleges.

Secondary Concentration

A secondary concentration in biological sciences consists of a minimum of 36 hours and may be taken in either the College of Liberal Arts and Sciences or the College of Education. It must include GSA 201-8, or 210-8, 301, 312, Botany 300, 301, Microbiology 301, and Zoology 102, 103. Attention is called to the fact that Chemistry 121a,b is a prerequisite to some of these biology courses.

Biology electives (and general electives, as desirable) will normally be selected from the following:

GSA 301, 313, 314, 315, 321, 340

Botany 315, 320, 321, 341, 400, 404, 405, 411, 412, 414, 449, 451, 470

Microbiology 302, 403, 425, 441, 451

Physiology 315, 430, 433

Zoology 202, 300, 309, 310, 321, 401, 402, 403, 407, 408, 410, 413, 414, 467, 471

Botany

Botany is a broad science that includes many specialties. For example, a person who has a quantitative turn of mind and enjoys mathematics or chemistry might find genetics or biochemistry exciting, whereas a person who has always enjoyed outdoor activity might be attracted to systematic botany or ecology. Plant morphology might appeal to a person who enjoys observation and interpretation, but plant physiology might have more appeal for a person who prefers experimentation. The exact courses that should be selected by a student who wishes to prepare for a career in botany or for graduate study will vary somewhat depending on the area of plant science in which he intends to specialize. As a general rule, a student who intends to apply for admission to a graduate school to study for an advanced degree in botany should include the following in his undergraduate program: inorganic and organic chemistry, mathematics through calculus, a modern European language, and as many botany and biology courses as time and scheduling will permit. Core courses required for concentration in botany are Biology 305, 306, 307, and 308. These courses may substitute for 16 hours of required courses in botany. Students planning to concentrate in botany should consult with the chairman of the department.

An honors program is available to those juniors and seniors in Botany who have an overall grade point average of 4.00 or better and an average in Botany courses of 4.25 or better. The honors student should enroll in Botany 392 during some quarters of both his junior and senior year for a total of no fewer than nine hours and no more than 21 hours.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements (Waive GSB-3.)	84
Supplementary Two-Year College Requirement in FL/Mathematics	
Mathematics: Math 111-10, and 150-10	20
Requirements for Concentration in Botany	44-64
GSA 201-8 or 210-8 (4 hours credited toward major)	(8)
GSA 303	3
Botany 300, 301, 315, 320, 341	20
Botany electives to complete 48 hours, which may include	
GSA 340, 345	21
Chemistry: a background of basic courses	0-20
Electives	24-44
Total	192

Secondary Concentration

A secondary concentration in botany consists of a minimum of 24 hours, including GSA 201-8 or 210-8 (which contributes only 4 hours) and excluding Botany 390 and 391.

Business Teacher Education

Bachelor of Science Degree, COLLEGE OF EDUCATION

General Studies Requirements (Waive GSB-3.)	84
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<i>Requirements for Concentration in Business Teacher Education</i> ..	61
GSB 201c; 211-8; GSD 110	(11) + 4
Accounting 251a	4
Economics 214-3	3
Finance 371	4
Management 170 or 320	4
Marketing 225	3
Secretarial and Business Education 201a	3
Preparation to teach in a minimum of four of the fol- lowing Areas:	36
General (Basic) Business Subjects—Economics 215, Management 340, Marketing 325	
Office Practice and Machines—Requirements for teaching in Area 1, 326, 341, Management 271	
Business Law—Finance 372, 373	
Typewriting ¹ —201b,c-6, 241, 304	
Shorthand and Transcription ¹ —221-12, 324-8	
Bookkeeping or Record Keeping ¹ —Accounting 251b,c	
Salesmanship and other Distributive Education Subjects—Marketing 325, 329, 337	
<i>Professional Education</i>	34-39
Guidance 305	4
Secondary Education 310	4
Secondary Education 352-12 or 16	12 or 16
Two of the following:	8
Guidance 422a	
Educational Administration 355	
Instructional Materials 417	
Two of the following:	6 or 7
Secretarial and Business Education 403, 404 405, 406, 408, Secondary Education 315	
<i>Electives</i>	8-13
<i>Total</i>	192

¹ Students who demonstrate by examination an initial competence in typewriting may be excused from as many as 9 hours of typewriting (201-9). Those students starting with a proficiency in shorthand may be excused from as many as 16 hours of shorthand (221-12, and 324a). Those who have had high school instruction in bookkeeping will start with Accounting 251a.

Bachelor of Science Degree, SCHOOL OF BUSINESS

Students who choose a concentration in accounting, economics, finance, management, marketing, or executive secretarial may become certified to teach in the public secondary schools by taking selected courses in the School of Business and professional education courses in the College of Education. Those students who are interested in preparing themselves for executive positions as well as for business teaching positions should consult a School of Business adviser.

Secondary Concentrations

Secondary concentrations are offered in the following areas: (1) secretarial studies and office management, consisting of a minimum of 24 hours in business; (2) business-teacher education, consisting of a minimum of 30 hours in business.

Secondary concentrations are planned for each student individually by the student and his adviser. This procedure is necessary because students' backgrounds and needs vary greatly.

Chemistry

The Department of Chemistry offers three degree programs with a concentration in chemistry. The first is the Bachelor of Arts degree with certification by the American Chemical Society. The degree is recommended for those who wish to become professional chemists. A minimum of 58 credit hours in chemistry is required for this degree. The second is the Bachelor of Arts degree. This degree involves less work in chemistry, with a minimum of 42 hours being required. This program is recommended to students who wish to complete a concentration in chemistry, but who plan on eventually going into other professional areas such as medicine, dentistry, etc.

The third program of study leads to the Bachelor of Science degree in education. This degree program is administered by the College of Education. It is provided for those who wish to become secondary school chemistry teachers.

Candidates for degrees are required to have a 3.00 grade point average in chemistry courses at the start of the second year of the concentration and a 3.25 grade point average in chemistry courses, and/or consent of the chairman, before starting the third and fourth years.

A knowledge of German is recommended for all concentrations in chemistry, and required for those students working for ACS certification. Scientific German may be counted as the equivalent of German 201c.

Bachelor of Arts Degree, A.C.S., COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements (Waive GSA-3.)	76
(Advanced Standing Assumed in GSA 101ab)	
Supplementary College Two-Year Requirement in FL/Mathematics	
Mathematics 111-10, 150-10	(9) + 11
Requirements for Concentration in Chemistry	79-82
Chemistry 121ab-10, 235, 341-15, 411, 432a, 433, 461-12	
plus two of the following: 412, 432b, 451-11, 496, 464,	
one of which must be picked from the first four on	
the list	58
Mathematics 252-9	9
Physics (one year)	12-15
GSD 126-9	(9)
Electives (additional mathematics is recommended)	22
Total	192

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements (Waive GSA-3.)	76
(Advanced Standing Assumed in GSA 101ab)	
Supplementary Two-Year College Requirement in FL/Mathematics	
Mathematics 111-10, 150-10	20
Requirements for Concentration in Chemistry	54-57
Chemistry 121ab-10, 235, 341-15 or 305-9, 461-12 or	
460-5, 432a plus courses selected from 350, 375, 411,	

412, 432, 433, 446, 447, 451-11, 464, 471, 490, 496, to total 42 hours	42
Physics (one year)	12-15
GSD 126-9 (recommended) or 123-9 or 136-9	(9)
<i>Electives</i>	39-42
<i>Total</i>	192

Bachelor of Science Degree, COLLEGE OF EDUCATION

<i>General Studies Requirements</i> (Waive GSA-3.)	76
(Advanced Standing Assumed in GSA 101a,b)	
<i>Requirements for Concentration in Chemistry</i>	48
Chemistry 121ab, 235, 341-15 or 305-9, 461-12 or 460, plus courses selected from 350, 375, 411, 412, 432-8, 433, 446, 447, 464, 471, 490, 496	48
For other course requirements see Secondary Education.	

SECONDARY CONCENTRATION

A secondary concentration in Chemistry consists of a minimum of 24 hours of chemistry courses.

Community Development

Secondary Concentration

A secondary concentration in community development consists of 24 hours, including Sociology 335, 487a,b, plus 13 additional hours approved by the Community Development Institute. A student intending to concentrate in community development should consult the director.

Design

The purpose of these courses is to prepare students for careers of socially useful problem-solving relative to significant needs of contemporary society. The student learns ways to utilize mental and physical resources to develop and control man's living environment. This, therefore, deals with areas of visual communications and environmental planning. Traditional school stratifications are minimized. Boundary lines are continually crossed as the student at the undergraduate level works with a variety of problem situations in cooperation with such disciplines as psychology, microbiology, sociology, education, and others.

Bachelor of Arts Degree, SCHOOL OF FINE ARTS

<i>General Studies Requirements</i> (Waive GSB-3.)	84
<i>Requirements for Concentration in Design</i>	119
GSD 107 or Mathematics 111-10	(8)
Design 100-15, 215-12, 275-12	39
Design 200-6, 300-6, 400-6	18
Design 366-15, 375-15, 390, 465f-15, 465g-15	62
<i>Total</i>	203

Students transferring from other schools, other areas of concentration, or from the General Studies program should arrange a personal inter-

view with the chairman of the Department of Design to develop the appropriate curriculum for fulfilling degree requirements.

Earth Science

Secondary Concentration

This course of study is designed for the student with an interest in the interdependent dynamic processes that take place on and near the earth's surface. At present the program is structured to complement a concentration in another discipline. This work may be taken either through the College of Liberal Arts and Sciences or through the College of Education.

A secondary concentration in earth science consists of a core program of 20 hours and 9 to 12 hours of electives, as follows:

Core Program	20
GSA 110-8, 330 or 331-3	
Ag 100, 306a or GSA 312 or GSB 353-3	
Geol 221 or 331-3, 400-3	
Electives	9-12
GSA 321, 322, 340, 363a	
Ag Ind 306b	
Geog 302, 310, 403a, 424	
Geol 425a	
Pl Ind 402	

Economics

The aim of the course of study in economics is to develop in the student such critical and analytical skills as underlie the ability to understand economic problems and institutions, both in their contemporary and historical setting.

Concentration in economics gives the student a basic understanding of the chief theoretical and institutional branches of the subject as well as the academic background necessary for many positions in industry and labor organizations, for work in the economic branches of government service, for college or university teaching, and for graduate study in economics and business.

Bachelor of Science Degree, SCHOOL OF BUSINESS

General Studies Requirements (Waive GSB-3.)	84
Professional Business Core	42
GSB 201b,c, GSD 110	(7)
Accounting 251-8, 261	12
Economics 214, 215, 308, or 408	6
Finance 320, 371 or 473	9
Management 340, 481	8
Marketing 301	7
Requirements for Concentration in Economics	32-36
Economics 310, 315, 330, 440, 441	20
Any four remaining Economics courses (including GSB 311) except 301, 433, 490	12-16
Electives	30-34
Total	192

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements</i> (Waive GSB-3.)	84
<i>Requirements for Concentration in Economics</i>	38-42
GSB 211a, GSD 110, GSD FL-9	(16)
Economics 214, 215, 310, 315, 330, 440, 441	26
Any four remaining Economics courses (including GSB 311) except 301, 433, 490	12-16
<i>Secondary Concentration</i>	28
(To be taken in anthropology, foreign languages, geography, history, mathematics, philosophy, psychology or sociology or some other area approved by the chairman of the Department of Economics.)	
<i>Electives</i>	38-42
<i>Total</i>	192

Secondary Concentration

The following courses constitute a 28-hour secondary concentration in economics: GSB 211a, GSD 110, Economics 214, 215, 315, and any three of the following: 310, 330, 429, 440, 441.

Elementary Education*Bachelor of Science Degree, COLLEGE OF EDUCATION*

Following are the requirements for the Bachelor of Science degree with concentration in elementary education and meeting the minimum requirements for a Standard Elementary School Certificate on either the early childhood level or the elementary level.

In addition to general university and College of Education requirements a student must (1) meet all requirements pertaining to prerequisites to student teaching and should study the section in this bulletin which lists such requirements; and (2) have at least 24 hours in each of these three fields: language arts, science, social science.

Everyone in elementary education or early childhood education should plan to have September Experience. This experience consists of serving as a teacher aide in an elementary school in the student's own home town after the public schools open in the fall and before the University opens. Usually there is an opportunity for a full two weeks' experience in helping in the classroom. Students can sign up for September Experience during the spring quarter in the office of the Department of Elementary Education, which then makes the necessary arrangements.

ELEMENTARY

<i>General Studies Requirements</i> (Waive GSC-3.)	84
<i>Requirements of Concentration in Elementary Education</i>	94
GSB 211b or Government 300	4
GSB 300b,c	6
Fine Arts electives	9
Language Arts electives	7
Mathematics 310	4
Physical Education for Women 319	4

Area of Specialization	12
Professional Education: (48 hours)	
Educational Administration 355	4
Guidance 305	4
Elementary Education 314, 337, 351b-16	24
Electives	16
Other Electives	14
Total	192

KINDERGARTEN-PRIMARY

General Studies Requirements (Waive GSC-3.)	84
Requirements for Concentration in Elementary Education	99
GSB 211b or Government 300, GSB 300b,c	10
Art 300	4
Language Arts electives	6
Mathematics 310	4
Music 040 (or proficiency), 300b	6
Physical Education for Women 319	4
Secretarial and Business Education 241	1
Technical and Industrial Education 302	4
Area of Specialization	12
Professional Education: (48 hours)	
Educational Administration 355	4
Guidance 305	4
Elementary Education 309 (winter only), 316, 337, 350b-16 ..	27
Electives	13
Electives	9
Total	192

Engineering

Engineering is the profession in which a knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind. In recent years society has increasingly asked engineers to assume responsibility for solving the complex technological problems of society, recognizing not only the technical aspects but also the sociological implications of his decisions.

The engineering curriculum is designed to produce graduates who understand the basic sciences and the engineering sciences and are able to apply them to the broad activities of engineering and science. Areas of professional activity include research, development, and creative design. Although the graduate of this curriculum is equipped to begin his engineering career, he should recognize the need for continuing education throughout his professional career.

Junior college and transfer students from other institutions should have strong backgrounds in the physical sciences, the social sciences and the humanities. Students are encouraged to complete specific freshman-sophomore course requirements which include 9 hours of composition and speech; 15 hours of university physics; 10 hours of chemistry; 10 to 25 hours of mathematics, including calculus; 9 hours of analytical mechanics

(statics and dynamics); and 6 hours of graphics. Calculus and analytical mechanics are prerequisites for most junior level courses.

The engineering program shown below is designed to provide a basic foundation for the professional engineer. This program emphasizes the basic sciences, humanities, and social sciences.

Bachelor of Science Degree, SCHOOL OF TECHNOLOGY

<i>General Studies Requirements</i> (Waive GSA-3; substitute GSA-1; and substitute GSD Mathematics.)	67
<i>Requirements for Concentration in Engineering</i>	132-133
Chemistry 121	10
Mathematics 150-10, 252-9, 305a-3, 305B (or 407 or 455)	25
Physics 211	15
Engineering Graphics	6
GSB 361	(3)
Applied Science 300	5
Engineering 100, 222, 260-9, 300-6, 311-9, 313-6, 331-8, 412-3, 435-3, 443-9, 450-4	62
Engineering Electives	9-10
<i>Total</i>	199-200

Students pursuing a Bachelor of Science degree in engineering will have an opportunity to specialize at the graduate level in such engineering specializations as Fluid and Thermal Sciences, Electrical Sciences, Solid Mechanics and Structures, Systems Engineering, and Transfer Processes and Environmental Engineering.

Engineering Technology

Engineering Technology is that part of the technological field which requires the application of scientific and engineering knowledge and methods combined with technical skills in support of engineering activities. It lies in the occupational spectrum between the craftsman and the engineer at the end of the spectrum closest to the engineer. A concentration of courses in engineering technology may fulfill the educational requirements for work in many fields of technology, such as chemical, civil, electrical, and mechanical engineering.

Individuals engaged in engineering technology are expected to provide technical support for the engineering practitioner and scientist. In general, they are not concerned with the development of new principles and methods. They should be well versed in the current state of the art of a particular technology, capable of utilizing handbooks and other forms of codified information with skill and discrimination. They should also be sufficiently versed in mathematics and the sciences related to the particular technology to distinguish sound procedures from unsound ones and to keep up with the current innovations in their special fields as these innovations occur.

Bachelor of Science Degree, SCHOOL OF TECHNOLOGY

<i>General Studies Requirements</i> (Waive GSB-3.)	8
<i>Requirements for Concentration in Engineering Technology</i>	11
GSA 358	(6)

GSB 361	3
Engineering 222, 300	6
Engineering Technology 100, 102-9, 260-9, 304-6, 311-6, 318-6, 342-3	41
Mathematics 111, 150, 252a	(9) + 16
Psychology 320	4
Optional Groupings	43
Chemical: Chemistry 235, Engineering 300b, Engineering Technology 337c, 349-9, technical electives-23	
Civil: Engineering 344, Engineering Technology 310-6, 363-8, 368-6, 426, 314, technical electives-14	
Electrical: Engineering Technology 303-9, 332-6, 336, 304c, 338-8, 437-9, technical electives-5	
Mechanical: Engineering Technology 301-3, 303, 304c, 308-8, 320-6, 322, 332, 340, Engineering 300b, technical electives-6	
Total	197

English

The student who wishes to declare English as a concentration should consult the department's director of undergraduate studies as soon as he knows he will concentrate in English. Transfer students from General Studies and other units of Southern Illinois University should bring a Request for Transfer form. Transfers from colleges other than Southern Illinois University should bring their evaluated transcript of grades. Thereafter, all students must have their advance registration forms signed by a departmental adviser. Deviations from approved programs must have prior approval. Membership in the English Club is expected.

Foreign language requirement for all concentrations in English: two years on the college level (or equivalent).

<i>Bachelor of Science Degree</i> , COLLEGE OF EDUCATION OR	
<i>Bachelor of Arts Degree</i> , COLLEGE OF LIBERAL ARTS AND SCIENCES	
<i>Option 1 (primarily for teacher-training candidates)</i>	
<i>General Studies Requirements (Waive GSC-3.)</i>	84
* <i>Supplementary Two-year College Requirement in FL/Mathematics</i>	
Foreign Language: GSD FL-9 and FL 201-9	18
<i>Requirements for Concentration in English</i>	51
GSC 201, 202, 210 (prerequisite for a concentration .. (7) + 2	
English 300-6, 302-12, 309a,b or 309a,c, 390, 471b, 485, 495a or 495b	41
One 400-level genre-period course in Poetry and one in Fiction	8
<i>Education Requirements (for certification)</i>	31
Guidance 305 (GSB 201c is prerequisite), Secondary Education 310, 352, two electives	
* <i>Electives</i>	8
Total	192

* English majors in the College of Education are not required to take the Mathematics combination. GSD FL-9 is considered as being part of the General Studies 84-hour requirement. FL 201-9 is required. Electives then total 17 hours.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES
Option 2 (primarily for nonteacher-training candidates)

<i>General Studies Requirements (Waive GSC-3.)</i>	84
<i>Supplementary Two-year College Requirement in FL/Mathematics</i>	
Foreign Language: GSD FL-9 and FL 201-9	18
<i>Requirements for Concentration in English</i>	53
GSC 201, 202, 210 (prerequisites for a concentration) .. (7) + 2	
English 302-12, 309a, b or 309a, c, 390, 471a, 471b, 495a or 495b	35
One 400-level genre-period course in Poetry and one in Fiction	8
English 400-level electives to complete 53 hours	8
<i>Electives</i>	37
<i>Total</i>	192

Option 3 (primarily for prospective graduate students)

<i>General Studies Requirements (Waive GSC-3.)</i>	84
<i>Supplementary Two-year College Requirement in FL/Mathematics</i>	
Foreign Language: GSD FL-9 and FL 201-9	18
<i>Requirements for Concentration in English</i>	54
GSC 201, 202, 210 (prerequisites for a concentration) .. (7) + 2	
One course in each of the following areas: medieval, Renaissance or 17th century, 18th century, 19th century, 20th century, early American, and American since 1865	28
English 471a, 471b, 495a or 495b	12
English language course	4
English 400-level electives to complete 54 hours	8
<i>Electives</i>	36
<i>Total</i>	192

Option 4

Students may petition to undertake a program which does not match printed requirements. Interested students should discuss this possibility with the departmental director of undergraduate studies.

Option 5

Any of the options outlined above may be modified by entry into the departmental honors program. Eligible students will be invited to enter. Requirements for honors students remain as above except that three pro-seminars substitute for three senior genre-period courses.

Recommended Electives Especially for Option 1.

Journalism 103; 201; 421; 422 or 449	12-13
Theater 402a; 409; GSC 203	11
Speech 202 or 205; 323, 423 or 424; 406 (GSD 103 and GSC 200 are prerequisites)	15

Secondary Concentration

A secondary concentration is 27 hours, prescribed as follows: from GSC 200-level English courses, 6 hours; English 300a,b; 302b, and 302a or c; 309a; 390. Deviations must have departmental approval.

Finance

The financial implications of decisions in both business and government are daily becoming more complex. Within the firm, financial considerations permeate the central decisions of research, engineering, production and marketing. Within governmental activities, sophisticated financial techniques are becoming increasingly important. The financial executive thus takes a key role in the successful management of both business and governmental operations.

The finance curriculum offers three areas of specialization to meet the varied interests of students: (1) financial management, (2) financial institutions, and (3) general finance. The financial management program provides the background for a career in the financial operations of business firms and public institutions. The financial institutions specialization is designed for those interested in the operations of financial intermediaries and financial markets. General finance is a broad program which surveys the entire finance area.

Bachelor of Science Degree, SCHOOL OF BUSINESS

General Studies Requirements (Waive GSB-3.)	84
Professional Business Core	42
GSB 201b,c and GSD 110	(7)
Accounting 251-8, 261	12
Economics 214, 215, 308 or 408	6
Finance 320, 371 or 473	9
Management 340, 481	8
Marketing 301	7
Requirements for Concentration in Finance	36
GSB 102-8, 211, 211a	(12)
Accounting 415	4
Finance 323, 325, 327, 421	16
One of the following specializations	16
Financial Management	(16)
Finance 324, 422, 475	12
Management 479	4
Financial Institutions	(16)
Finance 324, 326, 328	12
Management 479	4
General Finance	(16)
Student must choose 16 hours in Finance	
Electives	30
Total	192

Foreign Languages

Concentrations are offered in French, German, Latin, Russian, and Spanish.* Qualified students are encouraged to take proficiency examinations for FL 201-9. A student is not eligible to apply for proficiency in 220-6 unless he has passed the corresponding 201. If the student has had

* Other languages offered are Chinese, Portuguese, Classical Greek, and Italian.

4 years of one foreign language in high school, he is expected to begin with 300 level courses and take more upper level courses.

Bachelor of Arts, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements</i> (Waive GSC-3. Includes GSD 107-8)	83
<i>Supplementary Two-Year College Requirement in FL/Mathematics</i>	
Foreign Languages: GSD FL-9 and 9 hours included below ..	9
Foreign Language. Includes FL 201-9	52-56 ¹
Secondary Concentration	24 ²
Electives	20-24
<i>Total</i>	192

*Bachelor of Arts, COLLEGE OF LIBERAL ARTS AND SCIENCES,
(secondary school certification)*

<i>General Studies Requirements</i> (Waive GSC-3. Includes GSD 107-8)	83
<i>Supplementary Two-Year College Requirement in FL/Mathematics</i>	
Foreign Languages: GSD FL-9 and 9 hours included below ...	9
Foreign Language. Includes FL 201-9	52-56 ¹
Secondary Education	32 ⁴
Electives	12-16 ³
<i>Total</i>	192

Bachelor of Science, COLLEGE OF EDUCATION

<i>General Studies Requirements</i> (Waive GSC-3.)	83
Foreign Language	52-56 ¹
Secondary Education	32 ¹
Electives	21-25
<i>Total</i>	192

¹ See individual language listings for requirements.
² The secondary concentration may be in any field which supports the student's projected career. Among recommended fields are another foreign language, English, linguistics, philosophy, European and Russian studies, history.
³ Electives may contribute to a teaching minor. If it is in a second foreign language, state certification requirements may be met by counting GSD-FL courses or by doing additional work.
⁴ FL 353-4 must be taken instead of Secondary Education 315.

Secondary Concentration

A secondary concentration in a foreign language is constituted by from 26-30 hours in courses 200 level and above. See individual languages for specific requirements. State certification requirements may be met by counting GSD-FL courses or by doing additional advanced work.

French

At least one course in History of France is recommended for all students majoring in French.

BACHELOR OF ARTS DEGREE, COLLEGE OF LIBERAL ARTS AND SCIENCES

French courses 200 level and above, including the following:	56
200 level: 201a,b,c-9; 220a,b,c-6 recommended	9-15
300 level: 350-4, 352-3, 354-4, 397a,b,c-9	20
400 level: 408-4, 461-4, and at least 3 literature courses	17

French electives: Romance Philology, 410-4, and FL 353-4, are recommended 4-10

BACHELOR OF SCIENCE OR BACHELOR OF ARTS DEGREE WITH TEACHING CERTIFICATE

(FL 353-4 is taken in lieu of Sec Ed 315)

French courses 200 level and above, including the following: 56

200 level: 201a,b,c-9; 220a,b,c-6 recommended 9-15

300 level: 350-4, 352-3, 354-4, 397a,b,c-9 20

400 level: 408-4, 461-4, and at least 3 literature courses 17

French electives: Romance Philology, 410 is recommended . . . 4-10

SECONDARY CONCENTRATION

French courses 200 level and above, including the following: 26

200 level: 201a,b,c-9; 220a,b,c-6 recommended 9-15

300 level: 350-4 plus 352-3 and FL 353-4, or 350-4 plus 354-4

and any one quarter of 397 a, or b, or c (3) 11

French electives: 0-6

German

At least one course in History of Germany or Central Europe is recommended for all students majoring in German.

BACHELOR OF ARTS DEGREE, COLLEGE OF LIBERAL ARTS AND SCIENCES

German courses 200 level and above, including the following: 55

200 level: 201a,b,c-9; 220a,b,c-6 recommended 9-15

300 level: 301a,b-8 (normally taken in senior year), 304a,b-8, 310a,b-8; 304c-4 is recommended 24-28

400 level: At least three literature courses (6-12); 408-4 is recommended 6-16

German electives: FL 353-4 is recommended 0-16

BACHELOR OF SCIENCE OR BACHELOR OF ARTS DEGREE WITH TEACHING CERTIFICATE

(FL 353 is taken in lieu of Sec Ed 315)

German courses 200 level and above, including the following: 55

200 level: 201a,b,c-9; 220a,b,c-6 recommended 9-15

300 level: 301a,b-8 (normally taken in senior year), 304a,b-8, 310a,b-8; 304c-4 is recommended 24-28

400 level: 401a,b-4, plus at least two literature courses (4-8); 408-4 is recommended 8-16

German electives 0-14

SECONDARY CONCENTRATION

German courses 200 level and above, including the following: 27

200 level: 201a,b,c-9; 220a,b,c-6 recommended 9-15

300 level: 304a-4, 310a,b-8; 304b-4 or FL 353-4 are recommended 12-16

German electives 0-6

Latin

BACHELOR OF ARTS DEGREE, COLLEGE OF LIBERAL ARTS AND SCIENCES

Latin courses 200 level and above, including the following: 53

200 level: 201a,b,c 12 hours
300 level courses including Latin 315–8, and electives total-
ing 24 hrs., with FL 353–4 recommended 32 hours
Three of the following: GSC 330, 331, 332, 320 9 hours
Latin 315 listed above is a supplementary reading course from authors
not listed in the undergraduate catalog. This course is offered every
quarter. It is to be taken for a minimum of two hours or a maximum of
four hours per quarter, with total credit not to exceed eight hours.

BACHELOR OF SCIENCE OR BACHELOR OF ARTS DEGREE WITH TEACHING
CERTIFICATE

(FL 353 is taken in lieu of Sec Ed 315)
Latin courses 200 level and above: 53
Same program as immediately above for Bachelor of Arts in Latin
SECONDARY CONCENTRATION
Latin courses 200 level and above: 27
201a,b,c 12 hours
300 level: FL 353–4 is recommended 15 hours

Russian

At least one course in Russian History is recommended for all students
majoring in Russian.

BACHEOR OF ARTS DEGREE, COLLEGE OF LIBERAL ARTS AND SCIENCES

Russian courses 200 level and above, including the following: 52
200 level: 201a,b,c–9; 220a,b,c–6 recommended 9–15
300 level: 308a,b,c–9; 330a,b,c–6 (should be taken in a,b,c
sequence concurrently with 308–9) 15
400 level: at least three literature courses 12–16
Russian electives: FL 353 is recommended 6–16

BACHELOR OF SCIENCE OR BACHELOR OF ARTS DEGREE WITH TEACHING
CERTIFICATE

(FL 353 is taken in lieu of Sec Ed 315)
Russian courses 200 level and above, including the following: 52
200 level: 201a,b,c–9; 220a,b,c–6 recommended 9–15
300 level: 308a,b,c–9; 330a,b,c–6 (should be taken in a,b,c
sequence concurrently with 308–9) 15
400 level: At least two literature courses 8–12
Russian electives 10–20

SECONDARY CONCENTRATION

Russian courses 200 level and above, including the following: 20
200 level: 201a,b,c–9; 220a,b,c–6 recommended 9–15
300 level: 308a,b,c–9 are required; 330a,b,c–6 are recommended 9–15
Russian electives: FL 353 is recommended 0–8

Spanish

At least one course in History of Spain or Latin America is recommende
for all students majoring in Spanish. One year of Portuguese is also rec
ommended.

BACHELOR OF ARTS DEGREE, COLLEGE OF LIBERAL ARTS AND SCIENCES ... 5

Spanish courses 200 level and above, including the following:

200 level: 201a,b,c-9; 220a,b,c-6	15
300 level: 310a,b,c-9; and 333a,b,c-9 (at least 4 of the 6 courses required) 320a,b,c-6	18-24
400 level: At least three literature or linguistic courses; Ro- mance Philology 410 is recommended	9
Spanish electives: FL 353-4 is recommended	4-10
BACHELOR OF SCIENCE OR BACHELOR OF ARTS DEGREE WITH TEACHING CERTIFICATE	52
(FL 353 is taken in lieu of Sec Ed 315)	
Spanish courses 200 level and above, including the following:	
200 level: 201a,b,c-9; 220a,b,c-6	15
300 level: 310a,b,c-9; and 333a,b,c-9 (at least 4 of the 6 courses required) 320a,b,c-6	18-24
400 level: At least three literature or linguistic courses; Ro- mance Philology 410 is recommended	9
Spanish electives	4-10
SECONDARY CONCENTRATION	30
Spanish courses 200 level and above, including the following:	
200 level: 201a,b,c-9; 220a,b,c-6	15
300 level: 310a,b,c (or 333a,b,c)-9, (a 400 level course or FL 353-4 may be substituted for one quarter of the 310 or 333 sequence courses.) 320a,b-6	15

Forestry

Forestry provides instruction, research, and public service in the disciplines of forest recreation and park management, forest production, and wood utilization. The department's four-year undergraduate course of study leads to a Bachelor of Science degree offering fundamental training to students planning forestry as a professional career.

During the forestry student's freshman and sophomore years at Southern Illinois University his studies are devoted primarily to basic sciences, such as mathematics, chemistry, botany, physics, and zoology; and other cultural-foundational courses, such as English, history, and economics. Most of the professional forestry courses are offered in the junior and senior years. One spring quarter of practical field courses is required. During this period students live in the field and pay living expenses involved. By completing his field experience in the spring, the student is free during all school-year summer quarters to be employed by Federal or other forestry agencies or to accelerate in his academic work.

Available to the Department of Forestry for teaching and research are the following: The Crab Orchard Wildlife Refuge; the Shawnee National Forest; the Union County Tree Nursery and Forest; and the Kaskaskia Experimental Forest comprising several hundred thousand acres of forest land, all in the vicinity of the University. Also available for wood utilization teaching and research is a modern wood products plant located at the Vocational-Technical Institute, east of Carbondale. The Southern Illinois University Experimental Forest and Giant City State Park provide additional facilities for teaching and research, especially during the Spring Camp.

In addition, thirty-four staff members of the U.S. Forest Service's Carbondale Forest Research Center are affiliated with the Department of Forestry and help to enrich the University's forestry program.

Bachelor of Science Degree, SCHOOL OF AGRICULTURE

<i>General Studies Requirements</i> (Waive GSA-3.)	84
<i>Requirements for Concentration in Forestry</i> (For Forest Resource Management Option see A; for Forest Recreation and Park Management Option see B)	105-106
	A B
GSA 101-8 or Chemistry 111a or b	(8) + 1 (8) + 1
GSA 330, 340	(6) (6)
GSB 102	(8) (8)
GSB 211a	(8) (8)
GSD 103, 110	(3) + 3 (3) + 3
Botany 320, 457	9 0
Forestry 104, 221, 306, 320, 330, 333, 340, 350b, 363-9, 365-7, 369, 375, 465, 466, 470-8, 471	66 0
Forestry 104, 221, 306, 330, 340, 350-6, 363-9, 365a,b, 369, 375, 410, 450, 451-7, 465, 470-8, 471	0 72
Geology 220	5 5
Mathematics 111-10, 150-5	(9) + 1 (9) + 6
Plant Industries 301	4 4
Technology 101a, Engineering Technology 363a	7 7
Recreation and Outdoor Education 450	0 4
Zoology 306, 463	8 4
<i>Electives</i>	19-20
<i>Total</i>	209

Geography

The Department of Geography offers three programs to undergraduate students. They are the Bachelor of Science in Education, the Bachelor of Arts degree, and the Bachelor of Science degree.

1. Bachelor of Science in Education—for preparation to teach geography in the elementary or secondary school, or (with further preparation) in the junior college; or as a part of preparation to teach either social science or physical science in the elementary or secondary schools.

2. Bachelor of Arts—for a thorough specialization in a foreign area combined with two years of study in the appropriate foreign language; or in preparation for civil service appointment as a geographer.

3. Bachelor of Science—for comprehensive training in systematic geography (physical, cultural, or economic geography) combined with two years of training in mathematics; or in preparation for demands of private organizations requiring the services of geographers.

The core of training for undergraduate concentrations in geography involves two basic phases of preparation. First, Geography 300, 302, 304, 306, and 310 are a series of courses which offer the student a basic background in geography. In this initial core of classes, the student becomes acquainted with the viewpoint and methods of geography, with the concepts and theories of physical, economic, and cultural geography, and finally with the basic techniques and tools used by the geographer, namely

maps and quantitative methods. These courses should be completed prior to taking other geography courses.

The second phase of the undergraduate work is one of specialization. Herein, he performs more advanced work in his field of interest by completing two sequences of courses. Two quarter sequences are offered in advanced physical, economic, and cultural geography. Thus, a student interested in one of these fields—say economic geography—may take both sequences in advanced economic geography. A student who is not interested in such concentration can make his choice from a full range of other systematic and regional sequences. The capstone of the program is Geography 490—tutorial. The tutorial offers the student an opportunity to work intimately with two of the faculty during the senior year.

A geography student is encouraged to supplement his geographic preparation by taking courses in other fields of study which are cognate in his geography concentration. For instance, students who concentrate in physical geography should select appropriate courses from geology, botany, forestry, or physics to supplement his training in geography.

Each student should develop his own program of study in council with the undergraduate advisor in the Department of Geography.

Honors in geography is a special program available to the undergraduate student with an overall grade point average of 4.00 or better. During his junior year and after the completion of the undergraduate core of courses in geography, the honors candidate will be offered a three part package of training to develop his geographic research skills in the framework of Geography 487a (2)—honors tutorial, Geography 487b (4)—honors readings, and Geography 487c (4)—honors (supervised) research. This sequence of courses must be supplemented by one advanced sequence of courses in 400 level geography. Eligible students must contact the departmental undergraduate adviser for the consent of the department prior to their enrollment in this program.

Students taking a secondary concentration in geography must take Geography 300, 302, 304, and 306 while those taking the social studies program in the College of Education must take 300, 302, and 306. Students preparing to teach are strongly urged to take, as one of their electives, Geography 443 “Teaching of Geography.” Consultation with the undergraduate adviser in the Department of Geography is highly recommended for College of Education students also.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements (Waive GSB-3.)</i>	81
<i>Supplementary Two-Year College Requirement in FL/Mathematics</i>	
Foreign Language GSD FL-9 and FL 201-9	18
<i>Requirements for Concentration in Geography</i>	42
GSA 331	3
Geography 300, 302, 304, 306, 310a, 2 400-level sequences, 490	38
Geography electives to complete 42 hours	1
<i>Electives</i>	51
<i>Total</i>	192

Bachelor of Science Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements (Waive GSB-3.)</i>	81
<i>Supplementary Two-Year College Requirement in FL/Mathematics</i>	

Mathematics: Math 111-10 and 150-10	20
<i>Requirements for Concentration in Geography</i>	42
GSA 331	3
Geography 300, 302, 304, 306, 310a, 2 400-level sequences, 490	38
Geography electives to complete 42 hours	1
<i>Electives</i>	49
<i>Total</i>	192

Bachelor of Science Degree, COLLEGE OF EDUCATION

<i>General Studies Requirements</i> (Waive GSB-3.)	81
<i>College of Education Requirements for teacher certification</i>	28-36
Guidance 305-4, Secondary Ed. 310-4. Secondary Ed.	
315-3 (or Geography 443-4), Secondary Ed. 352- 8-16 ..	20-28
Two electives from a list of 8 courses	8
<i>Requirements for Concentration in Geography</i>	48
GSA 331	3
GSD FL	(9)
Geography 300, 302, 304, 306, 310a, one 400 level se-	
quence, 490 (4)	31
Geography electives to complete 48 hours (Only 42 hours	
are required if two 24-hour concentrations are pre-	
sented; only 36 hours are required if one other 48-hour	
concentration is presented.) ¹	14
<i>Electives</i>	27-35
<i>Total</i>	192

¹ A background in statistical analysis is recommended.

Secondary Concentration

Secondary Concentration should include the core courses, for together these courses offer the strongest basis preparation in geography.

Geology

In the field of geology a student may work toward either a Bachelor of Arts or Bachelor of Science degree.

The Bachelor of Arts degree requires a concentration in geology and a secondary concentration determined by consultation with the geology adviser.

The Bachelor of Science degree requires a concentration in geology and courses in chemistry, mathematics, and physics.

Having obtained a Bachelor of Arts degree, a student may continue his education toward a Master of Science degree although it may be necessary to absolve deficiencies in physics and mathematics.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements</i> (Waive GSA-3. GSD FL-9 included)	76 ¹
<i>Supplementary Two-Year College Requirement in FL/Mathematics</i>	
Mathematics: Mathematics 111-10 and 150-10	20
<i>Requirements for Concentration in Geology</i>	68-69
Geology 220, 221, 302, 310a, 310b, 315, 331, 410, 415, 425a,	
425b, 450a ²	50

Geology 320 or 400 level course	4
Chemistry 121a,b (Students entering with high school chemistry should begin with 121a)	10
Physics 206a, 207a or 211a	4-5
Secondary Concentration	24 ³
Electives	3-4
Total	192

Bachelor of Science Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements (Waive GSA-3. GSD FL-9 included)	76 ¹
Supplementary Two-Year College Requirement in FL/Mathematics	
Mathematics: Mathematics 111-10 and 150-10	20
Requirements for Concentration in Geology	89-93
Geology 220, 221, 302, 310a, 310b, 315, 331, 410, 415, 425a, 425b, 450a ²	50
Geology 320 or 400 level course	4
Mathematics 252a, 252b	9
Chemistry 121a, 121b (Students entering with high school chemistry should begin with 121a)	10
Chemistry 235 or 305a	4-5
Physics 206a, 206b, 206c, 207a, 207b, 207c, or 211a, 211b, 211c	12-15
Electives	3-7
Total	192

¹ Physics 206a, 207a, or 211a is substituted for GSA-101a.
Chemistry 121a or b is substituted for GSA 101b.
² The summer field course in geology, Geology 450a, should be taken between the junior and senior years.
³ A secondary concentration is determined by consultation with the geology adviser. Concentration in chemistry, mathematics, physics, zoology, or biological sciences is recommended. Secondary concentration in other fields require the consent of the chairman of the Department of Geology.

Secondary Concentration

A secondary concentration consists of 24 hours, determined by consultation with the geology adviser.

Government

A concentration in government is recommended for persons planning to teach civics or government courses, and for those planning to qualify for the study of law or for the public service. Students intending to concentrate in government should consult with the academic adviser of the department at the time of registration.

Government students should take as much work as possible in other social sciences, with at least one secondary concentration in a related field. Those students planning to take work in government beyond a master's degree should acquire a reading knowledge of either French or German.

It is recommended that government students meet the second-level requirements in GSB by taking 201-8. In addition, it is recommended that these students also take GSB 211a as an elective so as to clear the way for taking additional work in economics later. Students should begin their work with Government 231 and 232, which are basic courses and prerequisite for many advanced courses. They may, however, take GSB

211b; in this case they are not permitted to take Government 231 but may take 232.

The department is developing its Honors Program in government. The first of these courses is Government 350, Masterpieces of Political Science.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements</i> (Waive GSB-3.)	84
<i>Supplementary Two-Year College Requirement in FL/Mathematics</i>	18-20
Mathematics: Math 111-10, and 150-10	
or	
GSD FL-9, and FL 201-9	
<i>Requirements for Concentration in Government</i>	48
Government 231 (or GSB 211b), 232 highly recommended	9-10
Government electives to total at least 48 hours, preferably according to one of the three recommended sequences:	38
Unspecialized major: 305, 360, 379, 380, 462, 471, 472, 495-8, GSB 303, 390, 392	(44)
Specialization in International Affairs: 371, 450-12, 453, 456, 457-8, 458-12, 471, 472, 475-8, 480, GSB 303, 345, 385, 390, 392	(55)
Specialization in Public Administration: 305, 315, 340, 360, 410, 420, 432, 434, 435, 436, 438, 440, 461, 462, 463, 464, 466, 467, 469, 470, 495-8	(77)
<i>Electives</i>	40-42
<i>Total</i>	192

Bachelor of Science Degree, COLLEGE OF EDUCATION

A concentration in government includes 48 hours. The following courses are recommended: Government 231, 232, 305, 315, 330, 340, 360, 371, 379, 380, 420, 466, 467, 472, 487-8, 495-8, GSB 302, 303, 385, 390, and 392.

Health Education

Bachelor of Science Degree, COLLEGE OF EDUCATION

The Department of Health Education offers three concentrations and three secondary concentrations. The three concentrations are:

1. *Health Education in Secondary Schools*. For those individuals planning to teach or to supervise health education in the secondary schools.
2. *Health Education in Elementary Schools*. For those individuals planning to supervise health education in the elementary schools.
3. *Community Health Education*. For those individuals planning to be health educators in community agencies.

The three secondary concentrations are:

1. *Health Education in Secondary Schools*. For those individuals planning to be secondary school supervisors or administrators.
2. *Health Education in Elementary Schools*. For those individuals planning to be elementary supervisors or administrators.
3. *Safety Education*. For those individuals planning to be school ad-

ministrators, to teach driver education, to teach health education, or to work in any phase of safety education.

These concentrations, in general, constitute minimal preparation for the positions listed. Consequently, all candidates are strongly urged to complete additional work in the field.

<i>General Studies Requirements</i> (Waive GSA-3.)	84
<i>Requirements for Concentrations</i>	49
<i>Health Education in Secondary Schools</i>	
Health Education 300, 301, 305, 312, 325, 334s, 400, 405, 471, 491, plus 11 elective hours in Health Education.	
<i>Health Education in Elementary Schools</i>	
Health Education 300, 301, 305, 312, 325, 334s, 350, 400, 405, 471 plus Elementary Education 100, 203, and 314.	
<i>Community Health Education</i>	
Health Education 300, 301, 302, 312, 325, 334s, 400, 405, 471, 488, 489, 490, 491.	
College of Education Requirements	32
<i>Electives</i>	28
<i>Total</i>	193

Requirements for Secondary Concentrations

Health Education in Secondary Schools

Health Education 300, 305, 312, 334s, 471, 491, plus 7 elective hours in Health Education.

Health Education in Elementary Schools

Health Education 300, 305, 312, 334s, 350, 471, plus 7 elective hours in Health Education.

Safety Education

Health Education 302s, 313s, 323s or 334s, 442s, 443s, 475s, plus 6 hours of electives from the following: Health Education 323s, 334s, 415s, 445s, 480s, Special Education 414, 410A, 410B, Psychology 303, 305, 312, 404, 320, Technical and Industrial Education 465A, 465B, or Instructional Materials 417.

Health Science

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements</i> (Waive GSA-3.)	84
<i>Requirements for Concentration in Health Science</i>	72
GSA 101b, 201-8	(12)
GSB 102-8, 201-8	(16)
GSD 108-6, 110, FL-9	(9) + 9
GSE 201	(3)
Chemistry 111b,c	10
Government 231, 360	10
Health Education 300, 325, 355, 356, or 490	15
Microbiology 301, 403	10
Psychology 320, 323	8
Zoology 102, 407	10
<i>Electives</i>	36
<i>Total</i>	192

Recommended electives for specialization in sanitation: Botany 404,

Health Education 488, Mathematics 111–10 (Alternatives to above GSD requirements), Physics 206–9, Zoology 306, 310, 316, and 406.

Recommended electives for specialization in public health laboratory: Botany 405, Chemistry 230, Microbiology 425, 441, and 451, Physiology 315, Zoology 306, 321, and 406.

History

A concentration in history consists of a minimum of forty-eight quarter hours, necessary for certification for secondary school teaching. Students who plan advanced study in preparation for college teaching or other professional careers are advised to take added work. No secondary concentration is required, though eighteen to twenty-four hours should be taken in related fields approved by the department. The department requires two years of study in a foreign language for candidates for the Bachelor of Arts degree.

Courses should be distributed over at least two fields of history (American, European, Latin-American, Asian, and African) and should include approximately the same number of 400-level as 300-level courses. Students who intend to concentrate in history should consult with the chairman or a designated member of the history faculty at the time of registration, in order to plan a course of study. When possible, transfer students should report to the department prior to their first quarter of attendance.

Students with exceptional scholarly promise may be invited into the departmental honors program, which begins with a colloquium in the junior year, and continues with an honors seminar and thesis prepared under the direction of a member of the department in the senior year. Graduation with honors is given to those who successfully complete the program.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements</i> (Including GSD Mathematics) . . .	84
Foreign Language: GSD FL-9 and FL 201-9	18
<i>Requirements for Concentration in History</i>	34-48
GSB 101-8 (8)	
GSB 300-9 (6) + 3	
History electives	31-45
<i>Electives</i> (these may include 32 hours Education for teacher certification)	42-56
<i>Total</i>	192

Bachelor of Science Degree, COLLEGE OF EDUCATION

<i>General Studies Requirements</i> (Including GSB 201c and GSD FL) . . .	84
<i>Requirements for Concentration in History</i>	34-36
GSB 101-8 (8)	
GSB 300-9 (6) + 3	
History electives, divided between American and other	
History	31-33
<i>Requirements in Education</i> (Guidance 305, SEd 310, 315 or 488, 352, and two electives)	31-33
<i>Electives</i>	40-42
<i>Total</i>	19

SECONDARY CONCENTRATION

A secondary concentration in history ordinarily consists of thirty hours, although the field course in social science, College of Education, requires only twenty-four hours. GSB 101b,c and GSB 300a,b,c are required for either program. The student should divide the remainder of his work between American and foreign fields, and take a reasonable portion of his elective courses at the 400 level.

Home Economics

The School of Home Economics grants the Bachelor of Science degree in home economics. No secondary concentration is required. The following specializations are offered by the school and the departments indicated:

<i>Specialization</i>	<i>Department</i>
Apparel Design	Clothing and Textiles
Clothing and Textiles	Clothing and Textiles
Merchandising	
Dietetics	Food and Nutrition
Food and Nutrition Science	Food and Nutrition
Foods in Business	Food and Nutrition
General Home Economics	Home and Family
Extension	Home Economics Education
Institution Management	Food and Nutrition
Interior Design	Clothing and Textiles
Teaching Vocational Homemaking	Home Economics Education

The Home Economics Honors Program

An Honors Program in the School of Home Economics provides individualized programs for the student with high academic ability.

Selection depends upon (1) recommendations of the faculty members, (2) cumulative grade point average (4.00 is minimum, below 4.25 requires recommendation by the faculty and the Honors Council), (3) a personal interview for measuring other desirable characteristics, and (4) percentile ranks on the University's entrance examinations.

In selecting freshmen for participation in informal group discussions prior to formal honors study, percentile ranks on the University's entrance examinations, high school records, recommendations from the high school faculty, and the personal interview will be utilized.

For admission into the formal program, the student may apply independently to the Honors Council or may be encouraged by any member of the faculty to apply on the basis of his records and staff recommendations.

Bachelor of Science Degree, SCHOOL OF HOME ECONOMICS
Apparel Design

These courses offer preparation for designing of apparel or allied positions in the wholesale and retail fashion fields through training in textiles, creative design, draping, pattern making, and clothing construction.

<i>General Studies Requirements</i> (Waive GSB-3.)	84
<i>Requirements for Concentration in Home Economics</i>	98-100
GSA 101a or 110-8; 330 or 331; GSB 102a,b, 201b,c;	
GSC 100 or 101, 102, 103; 348 or 354	(35)

Art 225a or GSC 204	3	
Art 100-15, 341	19	
Chemistry 110, 240	(4) + 4	
Clothing and Textiles 127-4 *, 131, 135, 231, 233, 300, 322, 327, 329, 334, 339, 360, 364, 371, 433, 434	54-56	
Food and Nutrition 100	3	
Home and Family 227, 237, 323, 331, 341	13	
Home Economics Education 306	2	
<i>Electives</i>		8-10
Recommended electives: GSB 211a; Accounting 250; Cloth- ing and Textiles 127b; Design 100; Journalism 101, 260, 393; Marketing 225, 325; Physical Education 113, 303; Physi- ology 300; Psychology 307; Theater 111, 414, 415; VTID 175a; Language; Mathematics.		
<i>Total</i>		192

* Students may request exemption from 127b.

Dietetics

These courses give a strong scientific education to those interested in becoming dietitians in hospitals, college dormitories, industrial plants, health clinics, laboratories, or public health and welfare organizations. They meet the requirements of the American Dietetics Association.

<i>General Studies Requirements</i> (Waive GSB-3.)	84	
<i>Requirements for Concentration in Home Economics</i>	82	
GSA 101a, 301, 302; GSB 102-8; 201b,c; GSC 100 or 101, 102, 103; GSD 108-9	(44) + 1	
Accounting 250	4	
Chemistry 110, 240, 350	(4) + 8	
Clothing and Textiles 127a	2	
Food and Nutrition 100, 256, 320, 335, 356, 360a, 361, 362, 363, 390, 420	38	
Guidance 305	4	
Home and Family 227, 237, 331, 341	13	
Home Economics Education 307	3	
Management 385	4	
Microbiology 301	5	
<i>Electives</i>		26
Recommended electives: Clothing and Textiles 131; Food and Nu- trition 321, 360b, 421, 490; Home and Family 332; Microbiology 422; Management 382.		
<i>Total</i>		192

Foods in Business

These courses are for students who desire to enter the business field as home service representatives for utility companies, as demonstrators for manufacturers, or for other educational, experimental, and promotional work with household equipment and foods.

<i>General Studies Requirements</i> (Waive GSB-3.)	84	
<i>Requirements for Concentration in Home Economics</i>	86	
GSA 101a, 301, 302; GSB 101a,b, 201b,c; GSC 100 or 101, 102, 103, GSD 107-8	(43) + 1	

Accounting 250	4
Chemistry 110, 240, 350	(4) + 8
Clothing and Textiles 131	3
English 390	3
Food and Nutrition 100, 256, 320, 321, 335, 356	22
Home and Family 227, 237, 324, 331, 332, 341	20
Home Economics Education 306	2
Journalism 393	3
Marketing 225, 333	7
Microbiology 301	5
Printing and Photography 260a	4
Radio-TV 161	4
<i>Electives</i>	22
Recommended electives: Clothing and Textiles 127a, 135, 231; Food and Nutrition 371, 420; Home and Family 424; Journalism 331, 392; Marketing 337.	
<i>Total</i>	192

Food and Nutrition Science

These courses give a strong scientific education to those interested in preparing for graduate study in food, nutrition or related discipline; for research in university, industrial or governmental laboratories; or for educational and promotional work in industry or public health organizations.

<i>General Studies Requirements</i> (Waive GSB-3.)	84
<i>Requirements for Concentration in Home Economics</i>	89
GSA 101a, 301, 313; GSB 102; 201; GSC 100 or 101, 102, 103	(35) + 1
Anthropology 402	4
Chemistry 111b, 305a, 350	(4) + 19
Clothing and Textiles 131	3
Food and Nutrition 100, 256, 320, 360a, 356, 390, 420, 421, 490	31
Guidance 305	4
Home and Family 227, 237, 341	10
Home Economics Education 306	2
Mathematics 111-10, 410-4	(9) + 5
Microbiology 301, 422	10
<i>Electives</i>	19
Recommended electives: Chemistry 230, 451a; Food and Nutrition 335; Health Education 325; Home and Family 331; Psychology 211a,b.	
<i>Total</i>	192

General Home Economics

These courses emphasize the personal development of the student and preparation to carry the responsibilities of homemaking and citizenship.

<i>General Studies Requirements</i> (Waive GSB-3.)	84
<i>Requirements for Concentration in Home Economics</i>	66
GSA 101a; GSB 101b,c; 201b,c; GSC 100 or 101, 102, 103; GSD 107-8	(29)
Chemistry 110, 240	(4) + 4
Clothing and Textiles 127, 131, 135, 233, 327	16

Food and Nutrition 100, 256, 320, 321, 335	18
Home and Family 227, 237, 323, 324, 331, 332, 341, 345b, 366	28
<i>Electives</i>	42
Recommended electives for a General Curriculum: Clothing and Textiles 231, 360; Health Education 310; Home Economics Education 111.	
Recommended electives for the Child Development Family Relations area: Guidance 412; Home and Family 345a, 407, 456, 466, 471; Psychology 301, 303, 304, 305; Sociology 340.	
Recommended electives for the Consumer Services area: Clothing and Textiles 300, 332, 339; Food and Nutrition 356; Home and Family 407, 424, 435, 471; Journalism 331, 360, 370, 391, 397; Radio-TV 161, 257.	
<i>Total</i>	192

Institution Management

These courses prepare students to fill positions as food service managers for residence halls, hotels, tearooms, school lunchrooms, and industrial or commercial restaurants. They meet the requirements of the National Restaurant Association.

<i>General Studies Requirements</i> (Waive GSB-3.)	84
<i>Requirements for Concentration in Home Economics</i>	88
GSA 101a, 301, 302; GSB 102a,b; 201b,c; GSC 100 or 101, 102, 103; GSD 108, 109	(44) + 1
Accounting 251a,b	8
Chemistry 110, 240, 350	(4) + 8
Clothing and Textiles 131	3
Food and Nutrition 100, 256, 320, 335, 360-8, 361, 362, 363 ..	32
Home and Family 227, 237, 331, 341	13
Home Economics Education 306	2
Management 371, 382, 385	12
Microbiology 301	5
Psychology 320	4
<i>Electives</i>	20
Recommended electives: Clothing and Textiles 127a; Food and Nutrition 321, 371, 390, 420; Home and Family 332; Microbiology 422.	
<i>Total</i>	192

Interior Design

These courses prepare students for positions on interior designing staffs of department stores, in consultant capacities in allied fields, and in establishing an interior designing business. They meet the educational requirements for membership in the American Institute of Interior Designers.

<i>General Studies Requirements</i> (Waive GSB-3.)	84
<i>Requirements for Concentration in Home Economics</i>	96
GSA 101a; GSB 201b,c; GSC 101, 102, 103, 340, 341, 342 or art history—choice; GSD 107a	(29) + 3
Chemistry 110, 240	(4) + 4
Clothing and Textiles 127a, 131, 135, 231, 300, 331, 380, 381, 382, 390, 391-15, 394, 395	58

Design 100	10
Food and Nutrition 100	3
Home and Family 227, 237, 331, 341	13
Home Economics Education 306	2
Industrial Technology 304a	3
Electives	12
Recommended electives: Accounting 250; Art 385, 471, 473; Clothing and Textiles 322, 371, 431, 432, 470; Guidance 305; Home and Family 323, 324, 332; Industrial Technology 316a; Journalism 370, 260a, 331, 393; Management 271, 371.	
Total	192

Merchandising

These courses provide fundamental training for positions as salespeople, buyers, and department managers in department stores and other retail stores dealing with apparel and home furnishings. They include work in marketing, advertising, accounting, journalism, and merchandising, as well as clothing, textiles, and home furnishings. A period of field experience in the area of the student's special interest is provided.

General Studies Requirements (Waive GSB-3.)	84
Requirements for Concentration in Home Economics	92-95
GSA 101a; 102-8, 201-8; GSC 100 or 101, 102, 103	(29)
Accounting 250	4
Chemistry 110, 240	(4) + 4
Clothing and Textiles 127-8 *, 131, 135, 231, 233, 300, 322, 327, 329, 334, 339, 360, 364, 371, 434	46-49
Food and Nutrition 100	3
Home and Family 227, 237, 323, 331, 341	15
Home Economics Education 306	2
Marketing 225, 325, 329, 333, 337 or Finance 370	18
Electives	13-16
Recommended: Art 385; Clothing and Textiles 127b, 331, 382, 431, 474; Guidance 305; Home and Family 324, 332; Journalism 260a; Management 271, 371; Marketing 401.	
Total	192

* Students may request exemption from 127b

Teaching Vocational Homemaking

These courses meet the needs of students desiring to teach home economics in school departments maintained according to the provisions of the federal vocational acts. A vocational home economics certificate requires a bachelor's degree in home economics from an institution and in a course of study approved for teacher training by the Vocational Division of the United States Office of Education and by the State Board for Vocational Education and Rehabilitation. Southern Illinois University is so approved for training home economics teachers.

General Studies Requirements (Waive GSB-3.)	84
Requirements for Concentration in Home Economics	107
GSA 101a, 301; GSB 102-8; 211-8; GSC 101, 102, 103	(24) + 9

Chemistry 110, 240	(4) + 4
Clothing and Textiles 127, 131, 135, 233, 327	16
Food and Nutrition 100, 256, 320, 335	15
Guidance 305	4
Home and Family 227, 237, 323, 324, 331, 332, 341, 345b	25
Home Economics Education 111, 309-6, 310	12
Secondary Education 310, 352b	16
Electives in home economics	3
Electives in education	3
<i>Electives</i>	1
Recommended electives: GSB 331; Secondary Education 407, 440; Guidance 422; Education Administration 355; Instructional Ma- terials 417.	
<i>Total</i>	192

Extension

These courses prepare students for positions as Home Advisers, 4-H Club Agents or Advisers, and, with further training, extension specialists.	
<i>General Studies Requirements</i> (Waive GSB-3.)	
<i>Requirements for Concentration in Home Economics</i>	
GSA 101a, 301; GSB 102-8, 201-8, 211-8; GSC 101, 102, 103	(24) + 9
Chemistry 110, 240	(4) + 4
Clothing and Textiles 127, 131, 135, 233, 327, 360	20
Food and Nutrition 100, 256, 320, 335	15
Home and Family 227, 237, 323, 324, 331, 332, 341, 345b, 366 ..	28
Home Economics Education 111, 370, 371	13
Health Education 310	4
Journalism 393	3
Radio-TV 161	4
<i>Electives</i>	8
Recommended electives: Guidance 305; Secondary Education 310; Home Economics Education 309-6; Instructional Materials 417. 417.	
<i>Total</i>	192

Industrial Technology

Our complex technological society has increased the demand for the services of new types of professional workers known as technologists. These men and women have proven their capabilities and worth by serving effectively on technology "teams" with scientists, engineers, and technicians. By virtue of their technological training and knowledge of human relations, industrial technologists are equipped to use well-established techniques to solve problems brought about by the interaction of men, money, materials, and machines in the manufacture and distribution of finished goods and products. The student preparing himself for entrance into any of the numerous challenging areas of industrial technology must acquire a comprehensive background and an area of concentration.

Students transferring from junior colleges or other institutions will receive credit for their option in areas such as aviation maintenance, data

processing, electronics, drafting and design, construction, and machine tool design. Additional preparation should include physics, chemistry, college algebra, trigonometry, psychology, philosophy, and English.

Bachelor of Science Degree, SCHOOL OF TECHNOLOGY

<i>General Studies Requirements (Waive GSB-3.)</i>	84
<i>Requirements for Concentration in Industrial Technology</i>	113
GSA 358	(6)
GSB 361	3
Mathematics 111-10	(9) + 1
Engineering 222	3
Engineering Technology 102-9, 465	13
Industrial Technology 100, 300, 307, 314, 330, 318, 325, 343, 365	30
Management 380, 382	8
Psychology 320	4
Optional Grouping	51
<i>Total</i>	197

Industrial Design Option:

Design 390, Engineering 412a, Engineering Technology 430, Industrial Technology 305a,b,c, 306a,b,c, 342, 362, Cinema and Photography 260a, b, electives 11.

Manufacturing Option:

Accounting 250, Engineering Technology 465b, Industrial Technology 300b, 316, 325b, 335, 340, 341, 342, 343b, 358a, b, 375, electives 8.

Supervision and Personnel Option:

Accounting 250, Engineering Technology 465b, Health Education 334a, Industrial Technology 340, 358b, 375, Management 340, 385, Psychology 305, 322, 323, electives 9.

Technical Sales Option:

Engineering 412a, Industrial Technology 302, 362, 340, 342, 375, Management 430, Marketing 301, 329, 363, 401, electives 12.

Instructional Materials

Courses in the utilization and administration of teaching materials are designed to train both audio-visual coordinators and librarians to become fully qualified instructional materials specialists who can administer all teaching materials.

Secondary Concentration

Persons trained primarily as teachers may qualify for part-time professional service in a school library by completing 28 hours of work in approved courses which are 308, 403, 405, 406, 407, 417, and 420.

Inter-American Studies

The Inter-American Studies program, under the direction of the Latin American Institute, was initiated in 1958 to meet the ever-increasing demand for personnel qualified to deal with questions related to Mexico and the countries in Central America, the Caribbean, and South America. Government, business, and other interests require the services of individ-

uals who have a general comprehension of the problems and potentialities of the area, plus the necessary language skills to make possible graduates' highest-level performance in the field. Thus, the course of studies for this program is necessarily interdisciplinary. The student is given a firm general background in the history, geography, economics, anthropology, language, and literature of the English, Portuguese, and Spanish speaking countries in the New World. Further, special emphasis is placed upon the students' acquiring a working knowledge of Spanish and Portuguese. This level of linguistic skill is essential to permit a clear understanding of Latin Americans of all levels and backgrounds and as an indispensable skill or tool for anyone who intends to work in any professional capacity in Latin America regardless of an individual's specialized field of interest in business, government, agriculture, teaching, research, etc.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements</i> (Waive GSC-3. Includes GSD 107-8)	83
<i>Supplementary Two-Year College Requirement in FL/Mathematics</i>	
Foreign Language: GSD 140-9; 201-9	(18)
<i>Requirements for Concentration in Inter-American Studies</i>	92
GSB 303, 392	(6)
GSD FL	9
GSD 135-9, Portuguese	9
Anthropology 305a, 306a	6
Economics 419, 429	8
Foreign Languages: Spanish 201-9, 220-6, 320-6, 333-9	30
Geography 467	7
Government 453, 458	6
History 352a,b, and 3 hours chosen from 352c, 471, 473	9
Philosophy 340; 477 or 478	8
<i>Electives</i>	17
<i>Total</i>	192

Students coming to Southern Illinois University without any foreign language must take GSD 140-9 and Spanish 140 as prerequisites to the specified courses in the language. If their special interests demand, they should expect also to take such additional courses as desired in psychology, sociology, economics, or business administration.

Journalism

Journalism courses are designed to give thorough professional training in both theory and practice in a number of fields of journalism. The areas include daily and weekly newspapers, advertising, periodicals, radio and television news, education, free lance writing, industrial publications, news agencies, public relations, and research. In addition to courses, professional conferences, field trips, aid to high school newspapers and year-books are offered.

Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS

Journalism students must demonstrate a working knowledge of typewriting based upon a minimum straight copy rate of thirty words per minute. This proficiency may be demonstrated during the first year and must be demonstrated by the end of the junior year. Enrollment in Secretarial

and Business Education 201a for no academic credit is an acceptable substitute for the proficiency examination.

All students' course schedules must be approved by the chairman or his representative.

<i>General Studies Requirements</i> (Waive GSB-3.)	84
<i>Requirements for Concentration in Journalism</i>	48
Journalism 101, 102 (Freshmen and sophomores) or 345, 346 (juniors, seniors) 103, 201, 202, 370, 383-6, 399 ..	25
One of the five specializations below	15-20
Advertising: 371, 372, 373, 374, 376	18
Community Newspaper: 303, 330, 350, 351, 371, 442	18
Magazine: 297, 303, 369, 397, 398, 442	18
News and Editorial: 303, 330, 390, 391, 442	15
Radio and Television: 303, 442, R-T 161, 251, 310, 385	20
Journalism electives to complete 48 hours	6-11
<i>Electives</i>	56
At least 40 hours of upper class course work in the Departments of Anthropology, Chemistry, English, Economics, Foreign Languages, Geography, Geology, Government, History, Mathematics, Philosophy, Psychology, Sociology, Zoology, or other areas as approved by the chairman. Exceptions may be made to meet the requirements of students preparing to teach high school journalism.	
<i>Total</i>	192

Bachelor of Science Degree, COLLEGE OF EDUCATION

Requirements for Concentration in Journalism:

Journalism 101, 102, 103, 201, 202, 303, 390, 421, 422	28
Recommended electives are Journalism 214, 260a, 370, 391.	

Secondary Concentration

The 24-hour concentration in journalism consists of English 300, 392, and an elective in journalism.

Linguistics

Secondary Concentration

The secondary concentration in linguistics (a minimum of 28 hours), draws on the offerings of a number of departments. It introduces the student to the structure of language, the historical development of languages, and the relation of language to the rest of the culture.

<i>Required Core Courses</i>	19
Anthropology 413	3
English 400, 405a, b, 407a	16
<i>Electives</i>	9 to 11
Anthropology 401, 418	6
English 300a, b, 407b, 403	14
French 352	3
GSC 363a, b	6
German 413a, b	6

Mathematics 426a, b	6
Philosophy 320, 420	8
Romance Philology 410	4
Spanish 415	3
<i>Total</i>	<u>28</u>

The elective courses for the minor must be worked out with an adviser and the director of the MAEFL/Linguistics programs in the Department of English.

Management

Courses are offered in these areas of management: general, production systems, and personnel management. Students who do not wish to specialize will select the first area. The latter two areas are more restrictive in their requirements. The objective is to provide a broad, general, liberal educational experience rather than a narrow professional training.

Bachelor of Science Degree, SCHOOL OF BUSINESS

<i>General Studies Requirements</i> (Waive GSB-3.)	84
<i>Professional Business Core</i>	42
GSB 201b,c and GSD 110	(7)
Accounting 251-8, 261	12
Economics 214, 215, 308 or 408	6
Finance 320, 371 or 473	9
Management 340, 481	8
Marketing 301	7
<i>Requirements for Concentration in Management</i>	36
GSB 102-8, 201-8	(12) + 4
Management 361, 350 or 380, 385, 479, 473	20
Management: one of the Specializations below	12
General: 327, 421, 475	(12)
Personnel: 382, 480, 485	(12)
Production and Management Systems: 451, 452, one of 350, 382, or 483	(12)
<i>Electives</i>	30
<i>Total</i>	<u>192</u>

Marketing

Marketing consists of the performance of business activities that direct the flow of goods and services from producers to consumers and business users. The list of courses, below, reflects the philosophy that students seeking careers in selling, advertising, transportation, retailing, wholesaling, purchasing, credits, marketing research, and related fields need a balanced program of liberal and professional education.

Bachelor of Science Degree, SCHOOL OF BUSINESS

<i>General Studies Requirements</i> (Waive GSB-3.)	84
<i>Professional Business Core</i>	42
GSB 201b,c and GSD 110	(7)
Accounting 251-8, 261	12

Economics 214, 215, 308 or 408	6
Finance 320, 371 or 473	9
Management 340, 481	8
Marketing 301	7
<i>Requirements for Concentration in Marketing</i>	48
GSB 102-8, 201-8	(12) + 4
Economics 440, 441	8
Management 361, 479	8
Marketing 490 and one of five combinations: 329 and 401, 333 and 463, 337 and 438, 341 and 452, 336 and 439	12
Marketing Electives	12
Speech 301-4	4
<i>Electives</i>	18
<i>Total</i>	192

Mathematics

Students intending to concentrate in mathematics must plan schedules of mathematics courses numbered above 299 with a mathematics adviser. Mathematics grade must be at least C in courses numbered 150 or above.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements</i> (Waive GSA-3.)	84
<i>Requirements for Concentration in Mathematics</i>	59
GSD FL (French, German, or Russian recommended)	(9)
Mathematics 111-10 or advanced standing	10
Mathematics 150-10, 252-9 (A student may take any of these by proficiency examination or he may substitute any course in honors calculus, which allows extra credit, for any one of these.)	19
Mathematics electives numbered above 299, excluding 310, 311, and 410, but including at least 12 hours in courses numbered above 399 and including one of the following two-quarter sequences: 419-6; 421-6; 426-6; 428-6; 433-6; 452-6; 475-6; 480-6; 483-6.	30
<i>Secondary Concentration</i> (A list of options is available in the office of the Department of Mathematics.)	24
<i>Electives</i>	25
<i>Total</i>	192

Bachelor of Science Degree, COLLEGE OF EDUCATION

<i>General Studies Requirements</i> (Waive GSA-3.)	84
<i>Requirements for Concentration in Mathematics</i>	64
GSD FL (French, German, or Russian recommended)	(9)
Mathematics 111-10 or advanced standing	10
Mathematics 150-10, 252-9 (or honors calculus or by pro- ficiency)	19
Mathematics electives numbered above 299, excluding 310 and 410, but including at least 9 hours in courses numbered above 399.	30
Physics 211a (211b,c recommended)	5

Other requirements are listed under Secondary Education. Mathematics 311 may be substituted for Secondary Education 315.

Honors Work

Mathematics 395 is used for individual honors work for upper level undergraduates in mathematics.

Secondary Concentration

A secondary concentration in mathematics must include Mathematics 252a and at least 12 hours of courses numbered above 252a other than 410. At least a C is required in all mathematics courses numbered 150 and above.

Microbiology

Microbiology deals with the study of micro-organisms, examining various forms, their classification, growth, reproduction, heredity, biochemistry, ecology, and their relationship to other living organisms including man. The following program of study prepares one for laboratory or teaching positions after the bachelor's degree or for graduate study leading to advanced degrees.

Opportunities for specialized training in diagnostic bacteriology, virology, immunology, genetics, biochemistry and industrial processes are available. Core courses required for concentration in microbiology are Biology 305, 306, 307, and 308. These courses may substitute for 16 hours of required courses in microbiology.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies</i> (Waive GSA-3.)	83-84
<i>Supplementary Two-Year College Requirement in FL/Mathematics</i>	18-20
Math 111-10, and 150-10	
or	
GSD FL-9, and FL 201-9	
<i>Requirements for Concentration in Microbiology</i>	43
Microbiology 301, 302, 403, 425, 426, 441, 442, 451, 452	33
Microbiology electives to complete 43 hours	10
<i>Secondary Concentration</i>	24
Chemistry 115, 121a,b-15, 305-9	
<i>Electives</i>	21-2
<i>Total</i>	19

Secondary Concentration

A secondary concentration in microbiology consists of 24 hours, to include 301, 302, and other courses determined by the student in consultation with his microbiology adviser.

Music

During each academic year, a series of distinguished musicians join the faculty and students for a period of workshops, seminars, and performances. The roster for the past few years has included the following: Ca Weinrich, organist; Ernest and Lory Wallfisch, viola and piano duo; Wi

Apel, Louis Cuyler, and Nicholas Slonimsky, musicologists; Joseph Szigeti, violinist; Robert Goldsand, pianist; and Reginald Kell, clarinetist; and Nadia Boulanger.

In addition, artists from related fields have included Katherine Dunham, dancer; Edith Lutyens Bel Geddes, costume supervisor; and Max Kaplan, musicologist-sociologist.

General Requirements

The requirements for entrance and for graduation as set forth in this bulletin are in accordance with the published regulations of the National Association of Schools of Music, of which the Department of Music is a member.

Each resident music student must maintain a satisfactory membership in either a university band, orchestra, or chorus every quarter he is enrolled at Southern Illinois University, with the exception of the student teaching quarter.

It is required that all students with a concentration in music reserve the ten o'clock hour on Mondays for music convocations and studio recitals.

Bachelor of Music degree students with a concentration in applied music must present a half-recital in their junior year and a full recital in their senior year. Those with a concentration in music education must present a half-recital in their senior year.

A minimum of ten recitals per quarter must be attended by each student concentrating in music; five recitals per quarter for those with a secondary concentration in music. A deficiency in recital attendance for any one year will result in the student's being given a grade of incomplete in his applied music.

Each candidate for the Bachelor of Music degree must pass the proficiency examination in secondary piano. A student with inadequate preparation in piano must elect class piano each quarter of his freshman and sophomore years. If he fails to meet the basic piano requirements at the end of the sophomore year, he must continue in class piano without credit until he passes the test. One concentrating in music education must also pass a proficiency test in voice or elect class voice until he can pass the proficiency test. It is the responsibility of each student, with the assistance of his adviser and instructors, to meet these minimum requirements.

Bachelor of Music Degree, SCHOOL OF FINE ARTS

<i>General Studies Requirements</i> (Waive GSC-3.)	84
<i>Requirements for Concentration in Music</i>	114-120
GSC 357-9	9
Music (Theory) 105-12; 205-9; 326-6; 441-6 (3) +	30
Music (Applied) 12 quarters of ensemble	12
Piano proficiency	0-6
One of the specializations listed below ¹	66
<i>Applied Music</i>	
Major instrument or voice, 12 quarters ²	48
Additional theory courses	6
Electives in music	12
<i>Music Theory-Composition</i>	
Major instrument or voice, 12 quarters	36

Advanced theory-composition courses	12
Electives in music	18
<i>Music History-Literature</i>	
Major instrument or voice, 12 quarters	24
Advanced and related courses in music history and literature	18
Electives in music theory	12
Additional electives in music	12
Total	198-204

¹ Before the end of his sophomore year the student should choose an area of specialization. This choice is subject to approval by the faculty adviser and the chairman.

² For students combining this specialization with the prescribed courses for state certification in education, the applied concentration will be elected for 2 hours per quarter, totaling 24 hours.

Music Education

The following requirements may be satisfied in twelve quarters; they meet the requirements for the State Special Teaching Certificate.

<i>General Studies Requirements</i> (Waive GSC-3.)	84
<i>Requirements for Concentration in Music</i>	88-95
GSC 357-9	(6) + 3
Music (theory) 105-12, 205-9, 326-9 or 441-6	(3) + 24
Music (education) 300a, 305i or v; 309a, 318a,b	12
(Three hours of above counted in Professional Education below)	
Music (applied) 11 quarters of major ensemble and 11 quarters of major instrument or voice	33
Piano proficiency or class	0-6
Voice proficiency or class	0-1
Music: class woodwinds, brass, and strings	6
(2 hours except in major area and one hour of percussion—required of instrumental or combination majors)	
Music electives to increase specialization in instrumental music (string, winds, keyboard, brass or percussion) and vocal music (choral, opera, music theater, elementary education)	4
<i>Professional Education Requirements</i>	27
English 391 or proficiency examination	(3)
Guidance 305	4
Secondary Education 310	4
Education elective	4
Music (Education Methods) 451	3
Secondary Education 352	12
Before a student is approved for student teaching he must satisfy the course of study and proficiency prerequisites as established by the Department of Music.	
Total	199-206

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

This concentration is for students who wish to specialize in music as part of their general cultural education. It may also be taken as background training by those who may plan to pursue advanced studies in such fields as music criticism and aesthetics.

Required courses are 105-12, 205-9, GSC 357-9, 140-6, 240-6, 001 or 002 or 003-6 and electives in Music to complete a total of 60 hours.

Secondary Concentration

The secondary concentration in Music includes 105-12, 140-6, 001 or 002 or 003-3 and GSC 357-9 for a total of 30 hours. While enrolled in 140, the student must attend a minimum of five campus concerts per quarter, other than those in which he is a participant.

Nursing

At present all of the program may be taken at the East St. Louis Center; or the first four quarters including the summer quarter of the first year which is preclinical and primarily liberal arts subjects, may be taken on the Carbondale Campus. The remaining quarters must be taken at the East St. Louis Center starting in the fall quarter of the student's sophomore year.

Philosophy

General Studies courses in philosophy are available at each level for use in partial satisfaction of the requirements in Area C. The prospective philosophy student is advised to elect at least one such course at each of the first two levels.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements	90
Supplementary Two-Year College Requirement in FL/Mathematics	18
(All philosophy majors, except those planning to emphasize logic, should take two years of a foreign language.)	
Requirements for Concentration in Philosophy	35
GSC 381, 382, 383 plus any two of the following courses:	
Philosophy 300, 320, 481a, GSC 386, 387	(6) + 9
Philosophy electives to complete 45 hours, 3 or 4 of which may be selected from philosophy courses in the first two levels of GSC	
	(4) + 26
Secondary Concentration (consult with philosophy department chairman)	24
Electives	25
Total	192

SECONDARY CONCENTRATION

A secondary concentration in philosophy requires 24 hours, 6 or 7 of which may be selected from philosophy courses offered at the first two levels of General Studies and Philosophy and 12 of which should be selected from the courses listed above for the major concentration.

HONORS

Honors in philosophy will be granted to eligible majors who successfully complete three honors courses in philosophy (one in their junior year and two in their senior year, or *vice versa*), maintain a 4.25 average in Philosophy and a 4.000 overall grade point average, and have their written work

in honors courses accepted by the departmental Honors Committee. These honors courses may be elected for credit by non-majors, but only by students approved by the department.

Photography

These courses give thorough professional training in both theory and practice of photography. Students purchase supplies for most photography courses.

Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS

<i>General Studies Requirements</i> (Waive GSC-3.)	84
<i>Requirements for Concentration in Photography</i>	59-61
Art 100-10	(3) + 7
Printing and Photography 260-12, 303, 309a, 341-10, 360a-3, 401, 402, 408, 428, 429 and additional courses depending upon specialization:	52-54
309b, and 360b or 360c or 364 for general photography	
360b,c and 364 for publications photography	
<i>Electives</i>	47-49
<i>Total</i>	192

Physical Education

These courses are intended to qualify young people for positions as teachers, coaches, or specialists in public and private elementary or secondary schools, colleges, and universities as well as other social agencies which promote physical activity programs. They have been designed to meet the requirements of state departments of education and other agencies which have adopted professional standards.

Complete and integrated experience in teaching physical education and assisting in coaching under qualified supervisors is provided in the co-operating schools of the area. Added experiences are gained through membership in the Physical Education Club; membership in professional associations; participation on intramural teams; assisting in service class testing; professional journals; and working with recreational and school groups in teaching techniques of various activities.

Bachelor of Science Degree, COLLEGE OF EDUCATION—MEN

<i>General Studies Requirements</i> (Waive GSA-3.)	84
<i>Requirements for Concentration in Physical Education</i>	52
GSA 301	3
Physical Education for Men 100-18, 101, 303, 305, 341, 350, 354, 355, 370, 376, 420, and one sport theory course	(3) + 45
Physiology 300	4
<i>Professional Requirements</i>	20
<i>Secondary Concentration</i>	24
<i>Electives</i>	12
Recommended are Health Education 460, and Recreation and Outdoor Education 365.	
<i>Total</i>	192

Secondary Concentration—Men

A secondary concentration is 40 hours and must include 100–18, 303, 305, 350, 354, 370, 376, Physiology 300, and GSA 301.

Bachelor of Science Degree, COLLEGE OF EDUCATION—WOMEN

General Studies Requirements (Waive GSA–3.)	84
Requirements for Concentration in Physical Education	58
Physical Education for Women 113, 114, 211, 212, 222, 224, 228, 242, 244, 303, 304–10, 308, 350, 351, 352, 353, 354, 355, 370	(3) + 50
Health Education 334, 460	8
Secondary Concentration	24
(Required for Standard High School Certificate; not required for Standard Special Certificate)	
Professional Education Courses	29
Electives	(13)
Physical Education for Women 317, GSE 144a,b,d,e,i,m,p	3
Physical Education for Women 311, 374, 376, GSE 113e	2
Total	195

Anyone who transfers from another university and wants to concentrate in physical education for women must complete a minimum of 15 hours in physical education senior college courses at Southern Illinois University.

Secondary Concentration—Women

Requirements for a Secondary Concentration in Dance	30
GSE 113a,b,d,e	
Music 200	
Physical Education for Women 273, 308, 312, 313, 374, 376, 405	
Electives GSC 203, 207, GSE 113c, 114p, Music 346, Physical Education for Women 272, 304e, Theater 305.	
Requirements for a Secondary Concentration in Physical Education for the High School Teacher	30
Health Education 334	
Physical Education for Women 113, 222, 224, 228, 242, 304–8, 308, 353, 354, plus 2 additional activity courses	
Requirements for a Secondary Concentration in Physical Education for the Elementary School Teacher	30
GSE 112, 113b,d	
Health Education 334	
Physical Education for Women 304, 308, 350 or 319, 353, 354, plus 4 additional activity courses	

Physics

A student considering a concentration in physics is urged to consult with the undergraduate adviser of the physics department.

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements (Waive GSA–3.) (Advanced Standing assumed.)	76
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Supplementary Two-Year College Requirement in FL/Mathematics

Mathematics: 111-10 and 150-10	20
<i>Requirements for Concentration in Physics</i>	88-91
GSD-FL (French, German, or Russian recommended) ..	(9)
Chemistry 121-10	10
Mathematics 252-9, 305-6, 455c-3	18
Physics 211-15, (or 111-9 and 112-3, or 206-9 and 207-3); 301, 304, 305, 307, 309, 310, 401, 404, 410a, 415-12, plus 4 hours from 311, 312, and 418	60-63
<i>Electives</i>	5-8
Recommended: Applied Science 300, 401, 418, 421, 422; Chemistry 235, 305, 460, or 461; Engineering 222, 313, 334, 352, 412a, 420, 459, 461; GSB 211, 311, 354, 361; Geology 416, 435; Mathematics 421, 452, 455, 475, 480, 483; Physics 405, 410b.	
<i>Total</i>	192

Bachelor of Science Degree, COLLEGE OF EDUCATION

For this degree the requirements differ from those for the Bachelor of Arts degree in the following respects: No foreign language is required. Thirty-three hours of 300 or above physics courses, including 301, 305, 415-12 and 6 hours of laboratory courses selected from 307, 311, 312 and 418.

Secondary Concentration

A secondary concentration in physics requires 24 hours and must include Physics 211-15 (or not requiring calculus, Physics 111-9 and 112-3 or 206-9 and 207. Other courses not requiring calculus include Physics 300, 309, 310, 311, and 312).

Physiology*Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES*

<i>General Studies Requirements</i> (Waive GSA-3.)	84
<i>Supplementary Two-Year College Requirement in FL/Mathematics</i>	18-20
Mathematics 111-10, and 150-10	
or	
GSD FL-9, and FL 201-9	
<i>Requirements for Concentration in Physiology</i>	72
Physiology electives selected in consultation with the chairman to total at least 42 hours	42
A background of basic courses in chemistry, mathematics, and physics is required. Core courses in Biology 305, 306, 307, 308 involving 16 hours and other courses in zoology up to 30 hours are required	30
<i>Electives</i>	16-18
<i>Total</i>	192

Secondary Concentration

A secondary concentration in physiology requires a minimum of 24 hours.

JUNIOR—SENIOR HONORS PROGRAM

Students who, as sophomores, have shown outstanding ability in GSA 201

Twenty-four hours are required for secondary concentrations.

Junior-Senior Honors Program

A small number of students are selected each year for the honors program. Selection criteria are promising academic performance (4.0 overall GPA and 4.25 psychology GPA minimum), expressed interest, and recommendation of department adviser. Students selected register for 399a (junior honors) or 399b (senior honors) during each quarter in the program. Emphasis on small seminar and individual research work by the student.

Radio-Television

Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS

<i>General Studies Requirements</i>	84
<i>Requirements for Concentration in Radio-Television</i>	48
Radio-Television 161, 251, 252, 260, 351, 352, 363, 364, 373, 374 (8-12), 383, 393, and electives to total 48 hours	
<i>Secondary Concentration in a Related Area</i>	24
<i>Electives</i>	32
<i>Total</i>	192

Each student with a concentration in Radio-Television must by the end of his sophomore year:

1. Either achieve a grade of *B* in both GSD 101 and 102 or a grade of *C* in English 390.
2. Either demonstrate proficiency in typing at 30 words per minute by passing a test administered by the Department of Secretarial and Business Education, or pass Secretarial and Business Education 201a with a grade of *B*.

Recreation and Outdoor Education

Because of its relatedness to many academic fields, the recreation and outdoor education curriculum at Southern Illinois University builds its foundation on a good General Studies program and draws from several colleges and departments in the preparation of leaders for the many positions concerned with the recreative use of leisure time.

The curriculum emphasizes the practical as well as the theoretical aspects of recreation leadership. In addition to the General Studies requirements, several special courses are required in the student's professional field.

Each student is expected to choose courses which will give him a broad background in recreational activities and skills. These courses may be selected from such areas as music and dance, arts and crafts, drama, sports and games, and nature and conservation.

Students with a concentration in Recreation and Outdoor Education must complete 16 hours of practicum in two areas of interest, have 28 hours of professional recreation courses, and work closely with the department chairman in choosing related courses in other departments of the University, according to the student's chosen area of specialization.

The Department of Recreation and Outdoor Education offers courses leading to leadership specialization in (1) school and community recreation, (2) recreation for special populations, (3) outdoor recreation management, and (4) outdoor education.

Those students who wish to pursue a concentration in recreation and desire to teach must fulfill the course requirements in the College of Education, including a teaching concentration and practice teaching.

Students who have a concentration in recreation and do not fulfill the requirements in the College of Education for teaching must sign a statement indicating that they understand that they do not meet the state and college requirements for teaching and intend to work in recreation positions.

Students concentrating in recreation are encouraged to obtain the following certificates: American Red Cross Life Saving and Water certificate, American Camping Association Campcraft certificate. Other certificates in the activity and instructional areas are also available.

Bachelor of Science Degree, COLLEGE OF EDUCATION

General Studies Requirements (Waive GSB-3.) 84

Requirements for Concentration in Recreation and Outdoor Education 85-107

Government 232	5
Guidance 305	4
Health Education 345	4
Management 340	4
Recreation and Outdoor Education 201, 202, 310, 320, 330, 365, 425, 490	40
Speech 303	4

One of the Following Four Specializations: 24-46

Community Recreation

GSA 312, 340	(6)
GSB 321	(3)
Art 306	4
Technical and Industrial Education 303	4
Music 200, 300b	6
Physical Education 220, 221	4
Instructional Materials 417	4
Psychology 301, 303, 304	12
Sociology 340, 373	8

Recreation For Special Populations

GSB 321	(3)
Health Education 203	3
Physical Education 220, 221, 305	6
Psychology 301, 303, 304	12
Recreation and Outdoor Education 302, 340	6
Sociology 372, 373	8
Special Education 410	8

Outdoor Recreation Management

GSA 312, 340	(6)
Botany 313, 341	6
Forestry 350a, 410	6
Geology 221	5
Plant Industries 301, 304, 306a	10
Zoology 102, 103, 310, 303	19

Outdoor Education

Students who plan to teach, with an area of concentration in outdoor education, should choose their electives from the courses listed below:

Recreation and Outdoor Education 301	4
GSA 312, 340	(6)
GSB 321	(3)
Education Administration 355	4
Guidance 442	4
Psychology 301, 303	8
Instructional Materials 417	4
<i>Electives</i>	1-23
<i>Total</i>	192

Students concentrating in recreation are encouraged to obtain the following certificates: American Red Cross First Aid certificate, American Red Cross Life Saving and Water certificate, American Camping Association Campcraft certificate and other certificates in instructional areas.

Religious Studies

Secondary Concentration

The secondary concentration in religious studies (30 hours) draws on the offerings of several departments and programs. Each student is required to take 18 hours from a common core of courses in the phenomena of religion east and west. In addition, he must take 12 hours of related courses in some other department of the University. Students are encouraged to tailor the 12 hour elective side of this secondary concentration to their own academic interests, subject to the approval of the religious studies director.

<i>The Phenomena of Religion East and West.</i>	18
GSC 307-3, 310-3, 311-3, 312-3, 333-3	
Philosophy 301-4 and Soc 351-4	
Religious Studies 301-3, 320-6, 330-9	

<i>Departmental Sequences</i>	12
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This work may commonly be done in English, history, philosophy, psychology, or sociology, the details of which are subject to the approval of the religious studies director. A student may petition for an elective sequence in some department other than those here listed.

Russian and East European Studies

Secondary Concentration

A secondary concentration in area studies with specialization in Russian studies or in East European studies is offered especially for those students who also work for a concentration in foreign languages: Russian for Russian studies; German, Russian, or French for East European studies.

For either specialization a minimum of 24 hours must be earned in the chosen field, at least 12 of them in principal courses, the rest by electives. Not more than three courses in any one subject area will be counted toward fulfillment of the requirements. In exceptional cases an elective course may be substituted after consultation with the adviser for the course of study.

Principal courses for the *Russian studies* consist of Economics 460, GSB 380, Geography 464, Government 453, History 372. Electives are GSB 312, Anthropology 305b, 306b, Economics 418, 481, Geography 462, Government 455, History 312, 430.

Principal courses for the *East European studies* consist of GSB 380, 390, Economics 418, Geography 462, Government 455, History 312, 430. The electives are GSB 312, Anthropology 306b, Economics 460, 481, Geography 464, Government 453, History 372. One reading course or one independent-studies course can be used in fulfillment of the requirements. Each student's list of courses, however, should be approved by the adviser.

Secondary Education

One who is preparing to teach in junior high school, high school, or junior college does not concentrate in secondary education but must concentrate in any of the areas listed below.

The Department of Secondary Education concerns itself with the sequences of professional education courses that lead to certification for teaching in the junior high school, the high school, and the junior college. In addition, it advises students concerning areas of academic concentrations.

Bachelor of Science Degree, COLLEGE OF EDUCATION

A student in the College of Education who is preparing to teach in junior high school or high school may select areas of concentration in any of the following:

Agricultural Education	Foreign Languages	Music Education
Art Education	General Science	Physical Education
Biological Sciences	Geography	Physics
Business Education	Government	Social Studies
Botany ¹	Health Education	Speech
Chemistry	History	Technical and Industrial Education
Economics	Home Economics	Theater ²
English	Journalism	Zoology ¹
English Language Arts	Mathematics	

Secondary Concentration

With the consent of an academic adviser, a secondary concentration may be selected from the following:

Biological Sciences	Health Education	Physical Education
Botany ¹	History	Physics
Business Education	Home Economics	Physiology
Chemistry	Education	Psychology
Driver Education	Instructional Materials	Sociology
Economics	Journalism	Speech
English	Mathematics	Technical and Industrial Education
Foreign Languages	Microbiology	Theater
Geography	Music	Zoology ¹
Government	Philosophy	

Standard High School Certificate

A student may enter the Secondary Education program of the College of Education by transfer (1) from the General Studies program (provided he has attained 64 quarter hours), (2) from other academic units, or (3) from other institutions. In each case, he is subject to the following requirements.

¹ A student with a concentration in botany or zoology should have a secondary concentration in the other in order to meet certification standards for teaching biology at the high school level.
² In choosing this concentration, the number of hours required is 36; a second concentration of 36 hours must also be chosen; a secondary concentration of 27 hours is also required.

1. He must meet the requirements related to the state and federal constitutions satisfied by either Government 231, 300 or one of the following: GSB 211b, 300a.

2. There is no general requirement in foreign language in the Department of Secondary Education except in those situations where the student must meet a foreign language requirement as part of his major academic concentration.

3. He must complete either one area of concentration of at least 48 hours or one area of concentration of 36 hours and two minor areas with a sufficient number of hours to meet the teaching requirements for each. (Certain broad areas including biological sciences, English language arts, physical education, physical sciences, and social studies have special certification requirements. Students electing to work in these areas should adhere closely to the course of study presented through the designated academic adviser.)

4. He must, if working for certification at the secondary level, complete the following sequence of professional education courses, for at least 32 hours.

Guidance 305	4
Secondary Education 310, 315; 352-12 to 16 Student Teaching .	19-23
Select at least two courses from the following:	6-8
Agricultural Industries 311	
Art 308	
Educational Administration 355	
Guidance 422a	
Home Economics Education 310	
Technical and Industrial Education 408	
Instructional Materials 417	
Secondary Education 407, 440	

5. He must satisfy the Student Teaching prerequisites. Anyone who wishes to qualify for the Standard Special Certificate for grades K through 12 should see below.

A student in an academic unit other than the College of Education who desires to obtain a Standard High School Certificate should follow the teacher preparation program as described in this bulletin.

Standard Special Certificate

The Standard Special Certificate is valid for four years for teaching the special subject or subjects named on the certificate in grades kindergarten through 12. This certificate may be issued to one who has a bachelor's degree and presents certified evidence of having earned credit as follows:

<i>General Studies Requirements</i> (Waive GS-3.)	84
<i>Professional Education Requirements</i>	32
Guidance 305	4
Secondary Education 315 or Special Methods	3
Secondary Education 310, 352, and Elementary Education 351	16-20
Two of the following courses:	6-9
Agricultural Industries 311	
Art 308	
Educational Administration 355	
Guidance 422	

Home Economics Education	310
Instructional Materials	417
Secondary Education	407, 440
Technical and Industrial Education	408
Area of Specialization	48
Electives	28
Total	192

Secretarial Studies

Bachelor of Science Degree, SCHOOL OF BUSINESS

General Studies Requirements (Waive GSB-3.)	84
Professional Business Core	42
GSB 201b,c, GSB 110	(7)
Accounting 251-8, 261	12
Economics 214, 215, 308 or 408	6
Finance 320, 371 or 473	9
Management 340, 481	8
Marketing 301	7
Requirements for Concentration in Secretarial Studies	61
GSB 102-8, 211, GSD 110	(19)
English 300	4
Management 271, 385	8
Secretarial and Business Education 201-9, 221-12, 241, 304, 324-8, 326, 341, 426, 427	49
Electives	5
Total	192

Sociology

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements (Waive GSB-3.)	83 or 84
Supplementary Two-Year College Requirement in FL/Mathematics	18-20
Mathematics: 111-10, and 150-10	20
or	
GSD FL-9, and FL 201-9	18
Requirements for Concentration in Sociology	42
GSB 201-8 (4 hours count towards the concentration)	4
Sociology 301, 302, 312	12
Sociology electives in courses whose second digit is not 8, to complete 42 hours	26
Electives	46 or 49
Total	192

Social Work

General Studies Requirements (Waive GSB-3.)	83 or 84
Supplementary Two-Year College Requirement in FL/Mathematics	18-20
Mathematics: 111-10, and 150-10	20
or	
GSD FL-9, and FL 201-9	18

<i>Requirements for Concentration in Sociology-Social Work</i>	<i>42</i>
GSB 201-8 (4 hours count towards the concentration) . . .	4
Sociology 301, 302, 312, 375, 383, 481, 482	27
Sociology electives to complete 42 hours	11
In addition, 2 courses in Government must be completed	8
<i>Electives</i>	<i>38 or 41</i>
<i>Total</i>	<i>192</i>

Secondary Concentration

A secondary concentration in sociology consists of a minimum of 24 hours.

HONORS PROGRAM

The department offers an honors program for academically outstanding sociology majors. Qualifications for acceptance into this program consist of: (1) an overall grade point average of at least 4.00, (2) completion of 12 hours in sociology courses with a grade point average of at least 4.25. Three honors courses are offered at the junior and senior class levels. For details, qualified students interested in this program should consult the director of undergraduate studies in the sociology department.

Special Concentration

In addition to the regular areas of concentration, the University encourages a student with special needs and interests to design his own area of concentration. He may develop a special concentration in the following manner:

1. The student should consult a faculty member about a possible program.
2. The student should draft a program which is coherent and unified, showing the courses he plans to take, and explaining the purpose of his program.
3. The completed program should have the support of at least one faculty sponsor and the dean or deans of the academic units involved.
4. Final approval including the title designation of the concentration must come from the Dean of Academic Affairs or his representatives.

Approval of a special area of concentration does not exempt a student from any University requirements or from any of the requirements of the academic unit from which his degree will be awarded.

Special Education

Each area of concentration in special education leads to certification for teachers of a specific kind of exceptional child.

Students who are concentrating in other areas of education may qualify for the above mentioned special certificate for teachers of exceptional children by taking variable hours of additional course work in a specific area of exceptionality. Usually this course work can be taken in place of regular electives, and can be obtained in the junior and senior years. This permits a student, by time of graduation, to qualify for both his regular teaching certificate and the special certificate.

Bachelor of Science Degree, COLLEGE OF EDUCATION

Students may pursue a concentration in special education with pro-

gram emphasis in any of three areas of specialization: the emotionally disturbed (maladjusted), the educable mentally retarded, and the deaf and hard-of-hearing (acoustically handicapped).

General Studies Requirements (Waive GSC-3.) 84

Requirements of a Concentration in Special Education 39

- GSB 101, 201, 300b,c (22)
- GSC 100, 101, 102, and 103 (9) + 3
- GSC 201, 202, 203, 209, 210 (any two) (7)
- GSC 317, 345 or 365 6
- GSD 101, 102, 103, Math (9) + 9
- Art 300 or Technical and Industrial Education 303 4
- Government 300 or GSB 211b 4
- Mathematics 310 4
- Music 300b or 306 3
- Physical Education for Women 319 4
- Two elective hours of Physical Education Activity 2

Elementary Education 31-36

- GSB 331 or Educational Administration 355 3-4
- Elementary Education 314, 337, and 351b 20-24
- Guidance and Educational Psychology 412 4
- Psychology 301 4

One area of Specialization 44-56

EDUCATION OF MALADJUSTED CHILDREN 52-56

- Special Education 410a, 411, 413a, 414, 420a 20
- Psychology 305, 307, 431, 465 16
- Sociology 427 4
- Elementary Education 351b, 437 12-16

EDUCATION OF THE MENTALLY RETARDED 44

- Special Education 410b, 413b, 414, 420b 16
- Speech Pathology and Audiology 428 4
- Elementary Education 351b 12
- Guidance 422a 4
- Electives (300 level or above) may be chosen from the following areas: guidance and educational psychology, audio-visual aids, related courses in sociology, psychology, economics, or health education, rehabilitation, related courses in other areas of special education 8

Students in secondary education who wish to qualify for this certification must have the above courses and may need to take additional courses which are required in the elementary education program but which are not required in the secondary program.

EDUCATION OF THE ACOUSTICALLY HANDICAPPED 54

- Instructional Materials 301 2
- Psychology 301, 414 8
- Guidance 422a 4
- Special Education 410d, 414, 415, 420d, 421 20
- Speech Pathology and Audiology 200, 405a, 406, 416, 419 20
- One hundred twenty additional clock hours of super-

vised practicum and clinical practice in the areas of Hearing, Speech and Speech-reading are required for an Illinois Certificate—Teacher of the Deaf.

Total 198–215

Speech

Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS

60 HOUR CONCENTRATION

<i>General Studies Requirements</i> (Waive GSB–3 or GSC–3.)	84
<i>Requirements for Concentration in Speech</i>	54
GSC 200, GSD 103	(6)
Speech 102, 201, 202, 205, 209, 300 or 104, 301, 313, 407a, 407b or 417 or 418, 408 and 16 additional hours	54
<i>Electives</i>	54
<i>Total</i>	192

48 HOUR CONCENTRATION

<i>General Studies Requirements</i> (Waive GSB–3 or GSC–3.)	84
<i>Requirements for Concentration in Speech</i>	42
GSC 200, GSD 103	(6)
Speech 102, 200, 201, 202, 205, 209, 313, 407–4	26
Speech electives	16
<i>Secondary Concentration</i>	24
<i>Electives</i>	42
<i>Total</i>	192

Interpretation

<i>General Studies Requirements</i> (Waive GSB–3 or GSC–3.)	84
<i>Requirements for Concentration in Speech (Communications)</i>	59
GSC 200, GSD 103	(6)
English: A course of study of 16 hours of English will be worked out on an individual basis.	16
Speech 102 or 313, 104, 202, 209, 309, 323, 301, 408, 434, and any two of 422, 423, 424, (4 hours elective)	43
<i>Electives</i>	49
<i>Total</i>	192

If a teaching certificate is desired the following changes are necessary:

1. The 10 hours of electives allowed in this course of study should be taken in Interpretation.
2. The secondary concentration should be the regular English secondary concentration.

*Bachelor of Science Degree, COLLEGE OF EDUCATION OR
Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS*

<i>General Studies Requirements</i> (Waive GSB–3 or GSC–3.)	84
<i>Requirements for a Concentration in Speech</i>	48
GSC 200, 203	(6)
GSD 103	(3)

Radio-TV 367	3
Speech 102, 104 or 200, 202, 205, 209-1, 323, 427	23
Speech Pathology and Audiology 428	4
Theater 111-3, 208-1, 402a	8
Electives in speech and/or theater	10
Professional Education Requirements	32
Guidance 305 or Psychology 303	4
Education: two courses ¹	8
Secondary Education 310, 352	16
Speech 406	4
Secondary Concentration	24
One secondary concentration is required in a separate area with a sufficient number of hours to meet the teaching requirements for that area. A secondary concentration in English or social sciences is recommended.	
Electives	4
Total	192

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements (Waive GSB-3 or GSC-3.)	84
Requirements for Concentration in Speech	42
GSC 200	(3)
GSD 103	(3)
Speech 102, 202, 304	10
Speech electives to complete 48 hours	32
Secondary Concentration	24
Electives	42
Total	192

¹ The Education courses referred to above are Educational Administration 355, Guidance 422, Instructional Materials 417, Secondary Education 407, 440.

Secondary Concentration

A 30-hour secondary concentration in speech should be planned in consultation with the chairman of the department or the director of speech education. Students electing speech as a secondary concentration to a teaching concentration must include Speech 406.

Speech Pathology and Audiology

Speech pathology and audiology is an area which has as its objective the training of qualified personnel to work with people impaired in either speech or hearing. Positions in this field are available in the public schools, colleges, and universities, and in highly specialized public or private clinics. Experience is obtained through work at the University's Speech and Hearing Clinic, which is one of the participating agencies in the Cooperative Clinical Services. Additional practical experience is available at the University School; a six-week summer camping program in cooperation with the Division of Services for Crippled Children and the Easter Seal Society; the Marion V.A. Hospital, A. L. Bowen Children's Center, and the Anna State Hospital; rehabilitation work sponsored by the Division of Vocational Rehabilitation. Programs of study are designed

to meet the academic requirements for the Certificate of Clinical Competence of the American Speech and Hearing Association. Certification requires a master's degree or its equivalent, and students are encouraged to attain this level.

A student in the School of Communications who plans to be a public school speech therapist in Illinois must meet the following required courses to obtain a Limited State Special Certificate.

1. GSB 201c and Psychology 301; Elementary Education 314, 337; GSB 331; Guidance 422a; GSD 103 with a minimum grade of C; GSB 201b or 211b; Government 300; English 391 or proficiency examination. In addition, the following courses should be taken during the student's professional quarter, when he does his student teaching: GSB 331 or Elementary Education 355 or Instructional Materials 417; Elementary Education 351b (Student teaching, 8 hours).

2. Additional courses required for certification are Guidance 412 or 305 or Health Education 312 and Special Education 200 or 414.

3. Thirty to 38 hours of speech pathology.

4. Twelve hours in the field of hearing. (416, 406, 419)

5. Two hundred clock hours (275 ASHA) of supervised case work in a teacher-training center. (The requirement is satisfied by Elementary Education 351b and/or Speech Pathology and Audiology 405).

The above items 2, 3, 4, 5 are pertinent for those not wishing to be public school speech therapists.

Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS

The following applies toward certification requirement of the American Speech and Hearing Association.

<i>General Studies Requirements</i> (Waive GSA-3 or GSB-3.)	84
<i>Requirements for Concentration in Speech Pathology and Audiology</i>	64
GSB 201c	(4)
Psychology 301	4
Guidance 412 or 305 or Health Education 312	4
Guidance 422a	4
Speech Pathology and Audiology 200, 203 or 409, 212, 318, 319, 405-12, 406, 412 or 415, 414, 416, 419	52
<i>Electives</i>	44
<i>Total</i>	192

The following meets requirements for a state teaching certificate in addition to a concentration in Speech Pathology and Audiology.

<i>General Studies Requirements</i> (Waive GSA-3 or GSB-3.)	84
<i>Requirements for Concentration in Speech Pathology and Audiology</i>	89-95
(Courses listed above.)	64
GSB 331	3
Elementary Education 314, 337, 351b	20-24
Special Education 200 or 414	2-4
<i>Electives</i>	13-19
<i>Total</i>	192

Bachelor of Science Degree, COLLEGE OF EDUCATION

<i>General Studies Requirements</i> (Waive GSA-3 or GSB-3.)	84
<i>Requirements for Concentration in Speech Pathology and Audi-</i>	

ology	97-103
GSB 201b or 211b or 300a or Government 300	5
Other requirements listed above	89-95
Educational Administration 100	3
Electives	5-11
Total	192

Other requirements for the degree are given under the College of Education.

Student Teaching

Supervised student teaching is conducted in cooperating public schools in Southern Illinois and the Chicago City Schools. The College of Education requires 12 to 16 hours of student teaching for the Bachelor of Science degree. Students are expected to enroll for the entire 12 to 16 hours during one quarter.

One of the following professional-quarter plans of student teaching must be pursued by the student with the approval of the Chairman of Student Teaching.

The student teacher, under either plan, must follow the same daily schedule as the supervisor. This means that the student teacher is to remain in school for an entire day.

Elementary Professional Quarter

The student-teaching quarter is devoted to full-time student teaching in an approved off-campus center. The student teacher earns 16 hours of credit and is expected to participate in the teaching program for the entire school day, following exactly the schedule of the cooperating teacher.

The University supervisor calls a meeting of student teachers planning to do elementary student teaching at least one quarter in advance of the student teaching quarter. The purpose of this meeting is to complete plans and answer questions pertaining to the professional quarter.

Elementary Education 351 (student teaching) grants 16 hours of credit.

Early-Childhood Education Professional Quarter

The early-childhood education professional quarter is essentially the same as the one described for elementary student teachers with this exception: student teachers in this area teach full time for a quarter in either kindergarten or one of the primary grades. Students must indicate their preference at the time of filing the final application for student teaching.

Elementary Education 350 (student teaching) grants 16 hours of credit.

Secondary Professional Quarter

(EXCEPT VOCATIONAL AGRICULTURE AND VOCATIONAL HOME ECONOMICS)

Twelve Quarter-Hour Plan. This professional-quarter plan is designed for secondary student teachers in the College of Education and for other student teachers desiring to earn additional hours during any one quarter.

Secondary Education 352 (student teaching) grants 12 hours of credit. Additional hours may be earned by registering for courses taught on campus during the evening or on Saturday.

Sixteen Quarter-Hour Plan. This professional-quarter plan is designed

for secondary student teachers in the College of Education and for other student teachers desiring the maximum amount of student teaching offered by Southern Illinois University during any one quarter.

Secondary Education 352 (student teaching) grants 16 hours of credit. This program *does not* permit additional hours to be earned without the approval of the professional quarter committee.

Vocational Agriculture Professional Quarter

A 3.25 grade-point average is required before one may take student teaching.

Psychology and education courses required include Guidance 305 and Secondary Education 310. Agricultural Education courses required include Agricultural Industries 210 and 311.

For the professional quarter the student registers for Agricultural Industries 309, 312a and b.

Seniors preparing to be teachers of vocational agriculture do their student teaching in a professional quarter. The first four weeks of the quarter are devoted to an intensive study of methods. The last eight weeks of the quarter are given to supervised teaching in an approved off-campus center. Student teaching is done either fall or winter quarters.

The two weeks summer practice is taken the week prior to and the first week of school at the center where they plan to student teach. Altogether the student has ten weeks of practice experience.

The student is responsible for transportation to and from the center and also housing. It is recommended but not mandatory that the student teacher reside in the community while teaching. He is expected to remain on duty as long as the supervising teacher requires. He makes necessary visits after school hours to the homes of students to observe supervised farming programs. This may be true also for Saturday mornings. The student teacher is expected to attend all evening meetings such as the FFA, PTA, and adult farmer classes.

Vocational Home Economics Professional Quarter

A professional-quarter student preparing to teach home economics should register for Secondary Education 352-12, Home Economics Education 310, 311.

For three-fourths of the quarter (approximately 9 weeks), the student does full-time student teaching in an approved off-campus center. During the first week of the quarter, the student reports for prestudent-teaching day and to the Department of Home Economics Education for intensive work in the courses listed above. Likewise, at the end of the off-campus student-teaching period the student reports for the remainder of the quarter including the examination period to the Department of Home Economics Education for further intensive work in the evaluation of student teaching.

In the off-campus student-teaching centers, students are assisted in locating housing by the university supervisors of home economics education and the local public school teacher. Students who live in University Housing should indicate to the coordinator of housing the time when they will be off-campus for student teaching and/or Home Management House residence so that adjustments in contracts can be made. Students living in housing other than university housing should make arrangements directly with those involved.

The Department of Home Economics Education calls a meeting of students planning to do student teaching at least one quarter in advance of the student teaching period to plan for the professional quarter.

The Professional Quarter Committee

A representative from the College of Education, College of Liberal Arts and Sciences, School of Agriculture, School of Business, School of Communications, School of Fine Arts, School of Home Economics, and School of Technology serve on the professional quarter committee. The purposes of this committee are as follows:

1. To recommend to the Chairman of Student Teaching regulations and procedures applying to all student teachers working on the professional quarter plan.

2. To review petitions for special student teaching consideration where a student feels that he is an exception to the rules and regulations pertaining to the professional quarter. In most cases final reviewing is made from a written request form known as the *Petition for Special Student Teaching Consideration*. However, the committee as a whole feels that students should not be denied an opportunity of presenting their own cases in person to the committee.

3. To afford each college or school that is concerned with student teaching a personal representative.

No student may pursue a student teaching assignment other than one described previously under one of several professional-quarter plans, unless approved by the professional quarter committee. To request such approval, the student must complete the forms known as the *Petition for Special Student Teaching Consideration*. These forms may be secured from the office of the chairman of Student Teaching, Room 135, Wham Education Building. Petitions will be accepted for review by the professional quarter committee no later than the end of the second week of the quarter preceding the student teaching quarter. However, petitions may be filed as early as the filing of the final application for student teaching.

Since student teaching is designed in terms of the needs of beginning teachers for complete and integrated experience, and since more than one supervisor may be in charge of the work done by the student teacher, no part of the work may be dropped by the student teacher with the expectation of continuing the remainder of the work for credit. Furthermore, if one supervisor finds it necessary to drop a student teacher from a part of the program, the College of Education reserves the right to require such student teacher to drop all of his program of assigned student teaching rather than merely a part of it.

Two applications are necessary for student teaching. The preliminary or first application must be made during the first six weeks of the winter quarter, approximately one year prior to graduation. Announcements will appear in the *Egyptian*; major departments will be notified. Students are scheduled for either fall, winter, or spring quarter of the following year on the basis of information given on the preliminary application. A final, detailed, application blank must be filed prior to the quarter the student is scheduled for student teaching. A student scheduled to do student teaching during the fall or winter quarter should file his final application during the first two weeks of the preceding spring quarter. A student scheduled for student teaching during the spring quarter should file his final application during the first two weeks of the preceding fall quarter.

Application for student teaching by in-service teachers for the summer sessions should be made not later than January 1. Application blanks may be secured from the office of the chairman of Student Teaching.

Student Teaching Prerequisites

1. Preliminary application should be made to the chairman of Student Teaching during the winter quarter of the academic year prior to graduation.
2. A final, detailed application form must be completed two quarters prior to the student teaching assignment.
3. The student must have 128 hours of credit with a 3.25 grade point average before beginning work in student teaching.
4. The student is responsible for having transcripts of credit earned at colleges or universities other than Southern Illinois University on file in the office of the chairman of Student Teaching.
5. The student in secondary education must have at least 16 hours of credit in each subject which he proposes to teach. The areas of concentration are listed under Secondary Education elsewhere in the catalog.
6. Each student must have at least 12 hours in professional education courses prior to doing student teaching. One preparing to teach in junior or senior high school must have had educational or adolescent psychology, high school methods, or a special methods course in his public school teaching subject area. One preparing to teach in the elementary school must have had educational or child psychology, reading methods, and elementary methods. An early-childhood education concentration must have had educational or child psychology, reading methods, and kindergarten-primary methods. He must also be approved in class piano and must have had typewriting and duplicating courses or passed a proficiency exam in both.
7. The student must have established at least one quarter of residence credit at Southern Illinois University, earning a minimum of 16 hours of credit, prior to any student teaching assignment.
8. Students must have academic training in a public school teaching area which meets the approval of the respective departmental chairman.
9. Student teachers must have a clearance from Health Service, after taking a tuberculin test.
10. Admittance to the student teaching program will be made with respect to the above mentioned prerequisites at the close of the second quarter preceding the student teaching term.

Standards for Admission to a Teacher Education Program

UNCONDITIONAL ADMISSION

A student may apply for admission to a teacher education program with a minimum of 64 quarter hours of academic work. To be eligible for unconditional admission a student with from 64 to 102 quarter hours must have a cumulative grade point average of at least 3.00 on a 5.00 scale. A student applying for admission with 103 to 143 quarter hours must have at least a 3.10 cumulative grade point average. A student with more than 143 quarter hours at the time of application for admission must have at least a 3.20 cumulative grade point average. To apply for a student teaching assignment, a student must have been unconditionally admitted to a teacher education program. Before beginning a student teaching assignment, the student must have at least a 3.25 grade point average.

PROVISIONAL ADMISSION

A student may seek provisional admission to a teacher education program under the following conditions:

1. If he has 103 to 143 quarters hours of credit with a cumulative grade point average between 3.00 and 3.09 provided the grade point average in his teaching specialization is at least 3.20.
2. If he has more than 143 quarter hours of credit with a cumulative grade point average between 3.10 and 3.19 provided the grade point average in his teaching specialization is at least 3.30.
3. For a student planning to teach at the secondary level, the teaching specialization will include the subject matter concentration plus all education courses.

Procedure for Admission to a Teacher Education Program

Any student who expects to complete a program of teacher education at Southern Illinois University must be officially admitted to a teacher education program.

Application forms must be completed by the student and then given to (1) his academic advisor, (2) the chairman of the department of his major teaching area, for secondary and special education students only, (3) either the chairman of the Department of Elementary Education or Secondary Education, and (4) the assistant dean for undergraduate studies, College of Education, for the review and recommendation for approval (or disapproval). The forms must then be returned to the assistant dean for undergraduate studies for the official record of approved students in teacher education programs. This entire transaction must take place prior to entrance into the professional sequence of education coursework. The professional education coursework starts with Elementary Education 314 or 316 for elementary, special, and early childhood education students. For secondary Education and some special education students it starts with Secondary Education 310.

NEW ADMINISTRATION PROCEDURE

When a student decides on the teacher education program of his choice, he may make application according to the regulations stated herein. Formal application for admission to a teacher education program must be made through the assistant dean's office of the College of Education and approval must be granted prior to entrance into professional education coursework (either Elementary Education 314 or Elementary Education 316 for elementary, early childhood, and special education students; Secondary Education 310 for secondary and some special education students).

Application forms for admission to a teacher education program at Southern Illinois University, Carbondale Campus, may be secured at the dean's office, College of Education, Wham Education Building, Room 115.

Technical and Industrial Education

Programs are designed to prepare persons for teaching, supervisory, and leadership roles in occupational education in schools, colleges, and industry. Students are made aware of and become knowledgeable about roles, relationships, and expertise in a variety of enterprises.

Enterprise teaching (formerly industrial arts) encompasses a broad area

of study in elementary and secondary schools. It involves the study of (1) technological aspects of productive society under the headings: visual communications; energy conversion and power transmission; materials and processes; and electronics and instrumentation and (2) human aspects of the world of work in courses such as industrial sociology, industrial psychology, management and economics.

Trades and industries teaching concerns specialized instruction in the vocational-technical occupations of machine-tool, electronics, drafting, and other trade or technical occupations. Persons following this program are prepared to teach in high schools, area vocational schools, industry, private schools, and community junior colleges.

Technical teaching involves instructing youth and adults in highly skilled occupational areas such as, dental hygiene, electronics, practical nursing, automotives, aviation, health, and commercial art, which require basic and intermediate knowledge of science and mathematics as well as advanced knowledge of applications in a defined line of endeavor.

Manual arts therapists supervise rehabilitation activities involving tools, machines, and materials in hospitals and other centers.

Persons who wish to complete a degree immediately after high school are advised to prepare for enterprise teaching. People with work experience or post-secondary technical or vocational education in a technical institute or junior college are advised to prepare for trades and industries or technical teaching.

Bachelor of Science Degree, SCHOOL OF TECHNOLOGY

<i>General Studies Requirements</i>	84
Guidance and Educational Psychology 305	4
Mathematics 111-10	(9) + 1
Technical & Industrial Education 408, 491	6
<i>Major Groupings</i>	95
<i>Enterprise Teaching:</i> GSA 358-6; 100-2, 201-6, 305-8, 207, 307, 310, 420-8, 480-3; Sociology 338 or Psychology 323; Psychology 320; Economics 214, 215; Management 340, 431; Educational Administration 355; Secondary Education 310, 352.	
<i>Trades and Industries Teaching:</i> GSA 358-6; 100-2, graphics-6, 259 or concentration specialty-45, 319-12, 485, 495, 496; Educational Administration 355; Secondary Education 310, 352.	
<i>Technical Teaching:</i> 259 or concentration specialty-60, 319-12, 495, 496, 419-8.	
<i>Manual Arts Therapy:</i> Psychology 307, 465, Health Education 334s, Physiology 300, 455, GSA 358-6, Technical and Industrial Education 100-2, graphics-6, laboratory electives.	
<i>Total</i>	192

Theater

Instruction and training in all phases of dramatic production for the stage and in basic techniques for dramatic production in television, radio, and motion pictures are provided.

Education for dramatic production entails (1) training and practice in acting, directing, and technical production (stage management, crew work, the planning and execution of costumes, lighting, and scenery);

(2) understanding of the essential nature of theater art through study of theater esthetics, history, and criticism; (3) a survey of theater management practices; and (4) a knowledge of dramatic literature.

The courses are designed to achieve the following objectives: (1) to teach the theory and practice of play production; (2) to provide a foundation for graduate study, in dramatic production, theory, and history; (3) to provide basic professional training in all phases of dramatic production for stage, screen, radio, and television; (4) to provide the general college student with opportunities to participate on an extracurricular basis in a cooperative artistic enterprise, and with courses which will contribute to a broad liberal arts education; (5) to provide the student of general speech with training and experience in an important type of speech activity; (6) to provide campus, city, and area with live theater performances of the best plays, including children's plays and operas, of past and present; and (7) to permit students some degree of specialization in any one of five areas of dramatic production: acting and directing; scenic and costume design; playwriting and dramatic literature; theater history, theory, and esthetics; and children's theater and creative dramatics.

The Southern Players, under the supervision of the theater faculty, produce each school year five three-act plays, three plays for children, programs of original one-acts. Each fall the Touring Theater, a troupe composed of students registered in 322 tours Southern Illinois for several weeks, performing daily a three-act play and a play for children. Each summer a resident stock company produces a five-production playbill in the air-conditioned University Theater.

Bachelor of Science Degree, SCHOOL OF COMMUNICATIONS

<i>General Studies Requirements</i> (Waive GSC-3.)	84
<i>Requirements for Concentration in Theater</i>	89
GSC 110-9, 200, 201, 203, 305, 340, 348, 354, 365 .. (12) +	24
English 460-8	8
Theater 111-6, 203, 204, 207, 305, 311, 322-12, 402a, 414, 432, and other courses chosen according to the students desire to specialize in one of the five following areas: directing and acting; scenic and costume design; playwriting and dramatic literature; theater history and theory; Children's Theater and creative dramatics	48
Theater electives	9
<i>Electives</i>	19
<i>Total</i>	192

Bachelor of Arts Degree, COLLEGE OF LIBERAL ARTS AND SCIENCES

<i>General Studies Requirements</i> (Waive GSC-3.)	84
<i>Requirements for Concentration in Theater</i>	78
GSC 201, 203, 354-6 .. (4) +	9
English 460-8, 471-4	12
Theater 111a,b, or c, 204, 208-3, 308-3, 311, 314, 402a, 403, 438	33
Theater electives	24
<i>Electives</i>	30
<i>Total</i>	192

Secondary Concentration

The required courses are 111-6, 204, 207, 305, 311, 402a, for students in the School of Communications; GSC 203, Theater 111a,b, or c, 204, 208, or 308, 354-6, 402a, 438, for students in the College of Liberal Arts and Sciences.

Zoology

Students planning to concentrate in zoology should consult with the zoology faculty representatives for current information concerning requirements. Core courses required for concentration in zoology include Biology 305, 306, 307, 308. These may substitute for 16 hours of required courses.

A concentration in zoology is appropriate for those wishing to enter the following fields: fish and wildlife management, dentistry, medicine, veterinary medicine, or allied fields. These students should consult with the zoology adviser concerning their course of study. A student desiring a Bachelor of Science degree should consult with the department.

Bachelor of Arts or Bachelor of Science Degree,
COLLEGE OF LIBERAL ARTS AND SCIENCES

General Studies Requirements (Waive GSA-3.)	84
Supplementary Two-Year College Requirement in FL/Mathematics	9-10
GSD FL (Recommended French, German or Russian)	
and	
Foreign Language: FL 201-9	
or	
Mathematics: 150-10	
Requirements for Concentration in Zoology	60
GSA 201-8 or 210-8 (4 hours count toward the 48-	
hour concentration)	(8)
Mathematics 111-10	10
Chemistry 121-10	(4) + 6
Zoology 102, 103, 202, 300, 310, 382-1, 401	31
Zoology electives to complete 48 hours, which may in-	
clude GSA 312, 313, 315; Zoology 316 can not be	
counted toward the major	13
Electives	38-39
Recommended: three quarters of botany, two of physics, one of	
physiology, one of microbiology, and organic chemistry	
Total	192

One who desires a concentration in zoology is expected to register consecutively in Zoology 102, 103, 202, and 300.

Secondary Concentration

A secondary concentration in zoology consists of at least 24 hours, including GSA 201-8 (which contributes only 4 hours); Zoology 102, 103; and at least one laboratory course numbered above 199. GSA 312, 313, 314, 315 may be counted toward the 24-hour minimum.

COURSE DESCRIPTIONS

HERE ARE DESCRIBED all of the courses offered by the University for credit toward a bachelor's, master's or doctor's degree. (Associate degree courses offered by the Vocational-Technical Institute are described in the Division of Technical and Adult Education bulletin.) Courses are listed *numerically* within each subject-matter area. Areas are listed below in the order of their appearance on the following pages.

General Studies Area A	Geography
General Studies Area B	Geology
General Studies Area C	Government
General Studies Area D	Guidance and Educational Psychology
General Studies Area E	Health Education
Accounting	Higher Education
Aerospace Studies	History
Agricultural Industries	Home and Family
Animal Industries	Home Economics
Anthropology	Home Economics Education
Applied Science	Industrial Technology
Art	Instructional Materials
Botany	Journalism
Chemistry	Management
Cinema and Photography	Marketing
Clothing and Textiles	Mathematics
Design	Microbiology
Economics	Music
Educational Administration and Foundations	Philosophy
Elementary Education	Physical Education—Men
Engineering	Physical Education—Women
Engineering Technology	Physics
English	Physiology
Finance	Plant Industries
Food and Nutrition	President's Scholars
Foreign Languages	Psychology
General Foreign Language	Radio-Television
Chinese	Recreation and Outdoor Education
French	Rehabilitation
German	Religious Studies
Greek	Secondary Education
Italian	Secretarial and Business Education
Latin	Sociology
Portuguese	Special Education
Russian	Speech
Spanish	Speech Pathology and Audiology
Romance Philology	Technical and Industrial Education
Forestry	Theater
Freshman Honors Seminar	University Convocation
	Zoology

The first entry for each course is a three-digit numeral which, together with the subject area, serves to identify the course. The first digit indicates that the course is for freshmen, sophomores, juniors, seniors, or graduate students only, depending on whether the digit is 1, 2, 3, 4, or 5, respectively.

Following the identification number are a dash and another number,

which indicates the maximum credit allowed for the course. The maximum may be variable, such as Art 393-4 to 12. Some courses do not terminate at the end of one quarter, as evidenced by two or more numerals in parentheses indicating the credit allowed for each quarter of participation in the course, such as GSA 101-8 (4,4).

Next is the title, followed by a description of the course. If certain requirements must be satisfied before enrollment in a course, they are listed as prerequisites.

Not all of the courses described here are offered every quarter or even every year. To find out when and where a course is to be offered, consult the Schedule of Classes, which may be obtained from Central Publications, Southern Illinois University, Carbondale, Illinois 62901. When requesting a schedule, please specify *campus* (Carbondale or Edwardsville) and *quarter* (fall, winter, spring, or summer).

Man's Physical Environment and Biological Inheritance (GSA)

101-8 (4,4) Introduction to Physical Science. The aim of this course given jointly by the departments of Chemistry and Physics, is to introduce the student to a few of the basic concepts underlying the contemporary scientific view of nature, such as the understanding of energy properties, and behavior of matter.

110-8 (4,4) The Earth and Its Environment. A study of the Earth, its major domains, and its space environment; student investigation of earth substances, processes and utilization of energy. An investigative approach is used for study of the observational and measurement techniques used by the earth scientist. Lecture, laboratory, and individual study.

201-8 (4,4) Introductory Biology. Lecture and laboratory on the fundamentals of biological science: the cell and protoplasm, development, inheritance, structure and function of animals and plants, evolution and ecology. Must be taken in a,b, sequence. Prerequisite: GSA first level or Chemistry 110 or 111.

210-8 (4,4) Introductory Environmental Biology. Life and its environmental relationships. Morphological and ecological diversity of organisms is emphasized, including the dynamics of living communities, their variation in space and time, and the influence of genetics on these processes. May be taken in either sequence. Prerequisite: 110 or Chemistry 111.

301-4 Principles of Physiology. A comprehensive introductory analysis of the functional machinery of the human body.

302-3 Psychophysiological Foundations of Behavior. A study of the behavioral characteristics of living organisms, especially those of mammals and man.

303-3 Ferns, Trees, and Wild Flowers: The Pleasure of Recognition. Field studies of local plants.

310-3 The Development of Atomic Theory. A survey of atomic theory from early Greek thought to the present. These ideas are considered in the context of their times rather than as isolated events.

312-3 Conservation of Natural Resources. A study of man's use and misuse of natural environment.

313-3 Evolution. Principles and processes of the evolution of living things, including man. Prerequisite: one year of biology.

314-3 Man's Genetic Heritage. Principles of heredity as related to man, with emphasis on the effects of environment on his biological inheritance.

315-3 History of Biology. The inter-relationships between the development of biological knowledge and the history of mankind.

321-3 Introduction to Paleontology. A study of the record of fossil plants and animals and the application of biological and geological principles to the development of theories regarding their origin, evolution, distribution, and extinction.

322-3 Introduction to Rocks and Minerals. The course is specifically designed to acquaint the nonprofessional with the origin, distribution, character, and value of the common minerals and rocks in the earth's crust.

330-3 Weather. A study of weather elements basic to understanding the various

atmospheric happenings, with application to agriculture, industry, recreational resources, etc. Students may take only 330 or 331 for General Studies credit.

331-3 Climate. Description and interpretation of climatic regions and their influence on human activity. Students may take only 330 or 331 for General Studies Credit.

340-3 Ecology. A consideration of ecological principles with emphasis upon examples relating to vegetation.

345-3 Economic Botany. The study of man's dependence upon plants, domestication, production, consumption, crop ecology, possible new uses of plants.

358-6 (3,3) Analysis of Physical Systems. Quantitative applications of the principles of classical and modern physics with emphasis on the application of the laws of heat, wave motion, quantum theory, and atomic physics. Prerequisites: GSA first level, Mathematics 111a,b. Not open to students who have taken college or university physics.

361-3 Physics of Music and Acoustics. Nature, propagation, sources and receptors of sound; acoustic phenomena; physics of musical instruments; mathematics of music; ears and hearing; physiology and psychology; transmission, storage, and reproduction.

363-6 (3,3) Philosophy of Science. (a) The logic of scientific explanation illustrated by analysis of physical concepts and theories. (b) The logic of explanation in the biological and behavioral sciences and their implications for the individual and society. May be taken in a,b or b,a sequences, but a,b is preferable.

Man's Social Inheritance and Social Responsibilities (GSB)

101-8 (4,4) Survey of Western Tradition. (b) A general survey of the political, economic, social, and intellectual development of Western Europe from the Middle Ages through the French Revolution. (c) A general survey of the political, economic, social, and intellectual development of Western Europe since the French Revolution. Must be taken in sequence.

102-8 (4,4) Man and His World. Anthropology: the nature of man; his behavior as the only culture-bearing animal. Geography: description of the content and spatial patterns of the contemporary world.

201-8 (4,4) Behavior and Society. An examination of the variables related to the acquisition of human behavior and social interaction in human institutions.

210-2 to 4 Intercultural Seminar. Multi-disciplinary approach to study of (a) Africa, (b) Europe, (c) Latin America, (d) Moslem World, (e) Far East. Seminar and experiment in international living. Seminar comprised of one lecture from the Departments of Economics, Government, Anthropology, History, Geography, Philosophy, Sociology, Agriculture, and Technical and Industrial Education.

211-8 (4,4) Political Economy. The functioning of the economy, the theory, organization, and operation of government, and the making of public policy in the economic sphere.

300-9 (3,3,3) History of the United States. A general survey of the political, social, and economic development of the United States. (a) 1492 to 1815, (b) 1815 to 1900, (c) 1900 to the present.

301-3 Law: Comparative Legal Systems. A comparison of the legal institutions and laws in the United States, Western Europe, South America, and Eastern nations.

302-3 Law: Civil Rights. The law protecting the civil liberties and rights of people.

303-3 International Relations. A study of world politics. The causes of international conflict and the conditions of peace.

304-3 Law: History and Philosophy. A study of the evolution and development of law beginning with the ancient and archaic periods. Greek law, Roman law, and English and American law. In addition, the historical development of legal philosophy is reviewed.

311-3 Economic Development of the United States. Emphasizes the underlying trends and forces of change that have led to our present economic structure, level of performance, and our present world position. Prerequisite: 101b, or 211a,b, or 215.

312-3 Comparative Economic Systems. A comparative study of the goals, structure, and operation of the major economic systems, such as capitalism, social-

ism, communism, and fascism. Emphasis upon basic systems of organization and control, and upon mixed economies, rather than upon the traditional compartments within which economic systems are sometimes put. Prerequisite: 211a or 215.

314-3 Economic Analysis of the Agricultural Policies of the United States. Emphasis on the underlying economic bases of agricultural policies and the effects of such policies on farmers, middlemen, and consumers.

320-6 Modern Britain. History, economics, government, and sociology of contemporary Britain (summer only, abroad).

321-3 Socialization of the Individual. A study of the emergent social process in which the native capacities of the infant are shaped and developed through interaction with significant others during infancy and childhood.

323-3 East and West in the 20th Century—Origins and Prospects. Study of the development since the late 19th century of basic internal forces such as industrialization, nationalism, socialism, and fascism in the U.S., Europe, and Asia, and the manner in which these forces have led to both conflict and cooperation between these geographical areas.

325-3 Race and Minority Relations. An analytical study of the status of racial, ethnic, and religious minorities in the United States.

331-3 The American Educational Systems. A comprehensive study of the nature and purpose of education in the United States and of how our schools are organized, financed, and conducted.

341-3 Marriage. An examination of marriage in various societies with an emphasis on the origins, changes, and present status of dating, courtship and marriage in the United States.

345-3 Introduction to American Foreign Policy. An investigation of the means by which American foreign policy is formulated and executed and an analysis of the most significant challenges confronting America abroad.

353-3 Economic Geography of Resource Management. Description and analysis of contemporary problems concerning the behavioral and technical aspects of management of land, water, air, and environment quality.

354-3 Industrial Economic Geography. Geographic resources relationship to the economic life of our nation, distribution of resources, industrial production, and the transportation of industrial products.

361-3 Fundamentals of Decision Making. A study of factors and methods involved in selecting the most economical and feasible plan in industrial engineering ventures considering both the business and technical aspects involved. Prerequisite: GSD 108-6 or Mathematics 111-10.

369-9 The Contemporary Far East. A study of relations between wartime and peacetime economies with specific references to government controls, impact of military expenditures in "hot" and "cold" wars, and the re-allocation of resources.

377-3 to 4 Issues of Today. Interdisciplinary treatment of social problems of issues of current interest. Offered once or twice per year. May be repeated for a maximum of eight quarter hours provided registrations cover different topics. Prerequisite: 16 hours of GSB courses or equivalent.

380-6 (3,3) East Europe: Cultural Heritage and Present Institutions. (a) Cultural Heritage, (b) Present Institutions. An introduction to the European area east of the iron curtain with attention evenly divided among Russia, the Balkans, and Northern East Europe.

385-3 Contemporary Political Isms. An advanced survey of recent political systems: Nationalism, Socialism, Communism, Liberal Democracy, Christian Socialism, Fascism.

390-3 Introduction to Comparative Government. A comparative survey of the organization and operation of politics in modern states.

391-3 Introduction to Sub-Saharan African Government and Politics. For those with no background in African studies. Aspects of the politics and government of Sub-Saharan Africa relevant to an understanding of past and present domestic and foreign policies of the African states and territories. One-party systems of government, the role of the African military establishment, inter-African organizations and pan-Africanism, and the role of the African states in the United Nations.

392-3 Introduction to Latin American Government and Politics. A general introduction to Latin American government on the institutionalized political expression of Latin American civilization and culture. Does not require a reading knowledge of Spanish or Portuguese.

Man's Insights and Appreciations (GSC)

100-3 Music Understanding. Criteria for discriminative music listening as an asset to general culture. An examination of basic materials, techniques, and forms. Three consecutive quarters of music 001a-1 Symphonic Band, 002b-1 Oratorio Chorus, or 003a-1 University Orchestra may be substituted for this course. Prerequisite: two years of appropriate performing experience.

101-3 Art Appreciation. Study of significant achievements in art related to Western culture and contemporary life.

102-3 Problems of Moral Decision. An introduction to contemporary and perennial problems of personal and social morality, and to methods proposed for their resolution by great thinkers of past and present.

103-3 World Literature for Composition. Reading in English, literary masterpieces of the Western world, to increase the student's competence in reading imaginative literature, to acquaint him with the great ideas and values of the best literature, and to train him to deal with literary materials in his writing. Prerequisite: GSD 102 or appropriate ACT score.

110-9 (3,3,3) An Introduction to Western Humanities. A selection of great works expressing the aesthetic, moral, and religious values of Western man. Sets forth the critical vocabulary of six humanistic disciplines: art, music, philosophy, design, literature, and theater; provides some direct experience of each one; and calls attention to interrelations among the disciplines and between the humanities and other aspects of Western culture. Must be taken in a,b,c sequence.

200-4 The Oral Interpretation of Literature. Students participate in a dynamic analysis of literature stressing the creative role of the oral interpreter. Emphasis is on individual problems in understanding and communicating significant literary works.

201-3 Introduction to Drama. Not a history of the drama. The class will read about a dozen plays, modern and ancient, and consider how various dramatic conventions and devices are used to give form and meaning to human experience.

202-3 Introduction to Poetry. A variety of poems, from the simpler to the more complex, are read and discussed. Emphasis is upon enjoyment and upon heightened insight into human experience. Devices of artistic form, such as imagery and meter, are discussed as they are involved with the substance they express, human actions, feelings, and attitudes, including the poet's satisfaction in giving artistic form to his material.

203-3 Drama and the Arts of the Theater. The study of drama as a literary type: the relationship with the theater audience, the role of the theater in Western culture and its relation to other creative arts.

204-4 Meaning in the Visual Arts. The relationship of the visual arts to the history of ideas and the other arts at important selected moments in Western Civilization studied from paintings, sculpture, architecture, documents, and literature of the time. Prerequisite: 101 or consent.

205-4 Man's Contemporary Environment. A lecture-laboratory course designed to create a picture plane whereon a student may see some principles underlying architecture, visual communication, and other products of his physical and cultural environment.

206-4 Foundation of Music. Emphasis on the historical sequence of musical development from primitive ages through the contemporary scene. An introduction to the materials of music, including application of basic skills to keyboard performance, is provided in studio sections. Two hours of lecture, one hour of studio each week.

207-3 Philosophy of the Beautiful. A study of the structure and importance of the beautiful in nature, society, personality, and the arts.

208-4 Logic and Meaning. A critical study of expressive, informative, and other modes of discourse, with emphasis on their roles in rational process.

209-4 Modern Literature: Form and Idea. Designed to give the student an interest in and an understanding of the forms, themes, and values of modern American, British, and Continental literature.

210-3 Introduction to Fiction. A study of the chief techniques of fiction and of some of the acceptable criteria for judging fiction. Readings in some of the masterpieces among American and European short story and novel writers.

- 211-9 (3,3,3) An Introduction to Oriental Humanities.** The literature, music, drama, visual art, and definitive cultural motifs of three great Asian traditions: (a) focuses on India; (b) on China; and (c) on Japan. May be taken in any order.
- 305-3 Contemporary French Drama.** Study of French contemporary drama since 1930, to be read in translation, with emphasis on the piece *a these*, the Theatre libre, symbolist drama, and the drama of modern social problems.
- 307-3 Early Islamic Culture and Civilization.** An historical study of Islamic heritage including religion, philosophy, literature and the arts.
- 310-3 Religious Foundations of Western Civilization.** Examination of the historical backgrounds and contemporary expressions of Jewish, Catholic, and Protestant thought.
- 311-3 Philosophies and Religions of India.** Historical and comparative study of Hindu, Jain, and early Buddhist thought and practice.
- 312-3 Philosophies and Religions of the Far East.** Historical study of the religious and secular thought of China and Japan; Confucianism, Taoism, and the varieties of Mayhayana Buddhism.
- 317-3 Recent American Literature.**
- 318-3 Modern British Literature.** Contemporary British Fiction and Drama (Summer only—Oxford program abroad).
- 320-3 Greek Literature in Translation.** A study of the masterpieces of Greek literature in translation.
- 325-3 Black American Writers.** Poetry, drama, and fiction by black American writers. Prerequisite: 103 or equivalent.
- 330-3 Classical Mythology.** Study of the classical myths and their literary value.
- 331-3 Latin Literature in Translation.** Discussion of Latin literary works and their influence on later literature.
- 332-3 Classical Drama.** Study of selected plays in English translation from Aeschylus, Menander, Plautus, Terence, and Seneca. Origins, development, and influence of Greek and Roman tragedy and comedy. Study of Aristotle's *Poetics*.
- 333-3 The Bible as Literature.** The Bible in English translation considered as literature.
- 340-3 Modern Art A: The Art of the 19th Century.** The principal movements of the 19th century: neo-classicism, romanticism, realism, impressionism, and post-impressionism. The styles of David, Ingres, Delacroix, Corot, Courbet, Manet, Degas, Monet, Renoir, Seurat, Van Gogh, and Gauguin receive emphasis.
- 341-3 Modern Art B: Art of the Early 20th Century.** A study of modern art as manifest in Fauvism, cubism, and expressionism. Emphasis on the artistic development of Cezanne, Matisse, Rouault, Picasso, Braque, Gris, Leger, Kirchner, and Kandinsky.
- 342-3 Modern Art C: Art of the Mid 20th Century.** Abstraction, later German expressionism, the school of Paris, and surrealism. Special attention to the work of de Chirico, Klee, Beckman, Chagall, Kokashka, Soutine, and late Matisse, Picasso, Braque, and Leger.
- 345-9 (3,3,3) Masterpieces of World Literature.** A study of the representative works of the varying cultures and eras: (a) ancient, Greek and Roman worlds, (b) medieval, renaissance and eighteenth century, (c) Romantic, Victorian, and modern periods.
- 348-3 Photography as Communication and Art.** The development and significance of still photography, with emphasis on photography as an art and communications medium. Study of factors making for photographic excellence to provide a basis for evaluation and discrimination of photographic images.
- 349-3 The Cinema.** The cinema as a communicative and expressive medium. Study of film types. Showings of selected films.
- 351-6 (3,3) Masterpieces of the Novel.** A study of the representative continental, English, and American novels: (a) 18th and 19th centuries, (b) 20th century.
- 354-6 (3,3) History of the Theater.** A study of (a) primitive, Greek, medieval, and Italian Renaissance theater, (b) the theater since the Italian Renaissance.
- 357-9 (3,3,3) Music History and Literature.** Integrates the development of musical thought and literature from Greek and Roman periods through the Renaissance and continuing through the twentieth century. Prerequisite: 105c or consent of instructor.
- 363-6 (3,3) Philosophy of Science.** (a) The logic of scientific explanation illustrated by analysis of physical concepts and theories. (b) The logic of ex-

planation in the biological and behavioral sciences and their implications for the individual and society. May be taken in either a,b or b,a sequence, but a,b is preferable.

365-3 Shakespeare. The major works of William Shakespeare.

381-3 Greek Philosophy. The thought of the pre-Socratics, Plato, and Aristotle.

382-3 Graeco-Roman and Medieval Philosophies. Epicureanism, Stoicism, and medieval Christian thought.

383-3 Early Modern Philosophy. Bacon, Hobbes, Descartes, Leibniz, Spinoza, and the British empiricists in the context of the scientific and general social outlook of the period.

386-3 Early American Philosophy. From the colonial period to the Civil War.

387-3 Recent American Philosophy. Thought of Howison, Royce, Peirce, James, Dewey, and others.

Organization and Communication of Ideas (GSD)

101-3 English Composition. Basic rhetorical principles in expository writing.

102-3 English Composition. Basic rhetorical principles in expository writing. Prerequisite: GSD 101 or appropriate ACT score.

103-3 Oral Communication of Ideas. The basic principles and techniques of oral communication as applied to everyday speech activities.

106-0 Intermediate Algebra.

107-8 (5,3) Basic College Mathematics. Elementary portions of college algebra and fundamental mathematical concepts. Basic principles of trigonometry are included in the second quarter. For a student taking 107a,b and Mathematics 111b, credit in 107a is reduced to 3 hours. Must be taken in a,b sequence. Prerequisite: H.S. or GSD 106.

109-3 Elements of Probability. Probability with some applications from statistics. May be taken in lieu of GSD 107b by students not planning to take Mathematics 111b. Prerequisite: 107a.

110-3 Economic and Business Statistics. Elementary statistical concepts, including the nature of statistical methods, sampling, probability, frequency distributions, estimations and hypothesis.

120-9 (3,3,3) Elementary Chinese. Emphasis on development of reading skills. Must be taken in a,b,c sequence.

123-9 (3,3,3) Elementary French. Open to students who have had no previous work in French. Must be taken in a,b,c sequence.

126-9 (3,3,3) Elementary German. Open to students who have had no previous work in German. Must be taken in a,b,c sequence.

130-9 (3,3,3) Elementary Greek. (a) Grammar is emphasized, (b,c) reading of a text, usually the New Testament. Must be taken in a,b,c sequence.

133-9 (3,3,3) Elementary Latin. Open to students who have had no previous work in Latin. Must be taken in a,b,c sequence.

135-9 (3,3,3) Elementary Portuguese.

136-9 (3,3,3) Elementary Russian. No previous knowledge of Russian required. Must be taken in a,b,c sequence.

140-9 (3,3,3) Elementary Spanish. Open to students who have had no previous work in Spanish. Must be taken in a,b,c sequence.

144-9 (3,3,3) Elementary Italian. Open to students who have had no previous work in Italian. Must be taken in a,b,c sequence.

Notes pertaining to GSD 120 through 144:

1. Sections of conversation for 1 hour of credit are available with each of these languages, but on an elective basis.

2. Students having had high school language training should see the Department of Foreign Languages for placement.

Health and Physical Development (GSE)

Courses numbered 100-104 are for men; 110-114 are for women.

100-3 (1,1,1) Restricted Physical Education (Men).

101-3 (1,1,1) Swimming (Men). (a) Beginning swimming, (b) Intermediate swimming, (c) Diving.

102-1 Physical Fitness (Men).**103-3 (1,1,1) Dance (Men).** (a) Square, (b) Folk, (c) Social.**104-(1 per activity) Individual and Team Activity. (Men).** (a) Archery, (b) Badminton, (c) Basketball, (d) Bowling, (e) Golf, (f) Soccer, (h) Tennis, (i) Volleyball, (j) Softball, (k) Horseback riding, (m) Fencing, (n) Cross country, (q) Fly and bait casting, (r) Stunts and tumbling, (s) Gymnastics, (t) Touch football, (u) Wrestling, (w) Judo, (x) Handball.**105-1 Weight Control.** For students who are overweight, to learn and practice the principles of weight control.**110-3 (1,1,1) Restricted Physical Education (Women).****111-2 (1,1) Swimming (Women).** (a) Beginning Swimming, (b) Intermediate Swimming.**112-1 Exercise for Fitness (Women).****113-5 (1,1,1,1,1) Dance (Women).** (a) Square, (b) Folk, (c) Social, (d) Beginning Contemporary, (e) Intermediate Contemporary.**114-(1 per activity) Individual and Team Activity (Women).** (a) Archery, (b) Badminton, (c) Basketball, (d) Bowling, (e) Golf, (h) Tennis, (i) Volley Ball, (m) Fencing, (p) Gymnastics and tumbling, (r) Track and field, (s) Intermediate Bowling, (t) Intermediate Tennis.**201-3 Healthful Living.** Personal and community health. Presents scientific health information as a basis for helping the student develop wholesome health attitudes and practices.

Accounting

250-4 Accounting Fundamentals. Prevalent accounting principles and practices employed in business organizations. Accumulation of data and usefulness of reports are considered. Not open to students with a concentration in the School of Business.**251-8 (4,4) Financial Accounting.** Emphasizes corporate transaction analysis and impact on financial measures including manufacturing and funds flow. First term develops financial terminology and the double-entry, accrual basis model. Second term develops alternate measurement methods for assets and liabilities. Prerequisite: sophomore standing.**261-4 Management Accounting.** Emphasis uses of accounting information in planning and control decisions through funds flow analysis, budgeting models, marginal analysis, variance analysis, and relevant costing procedures. Prerequisite: Mathematics 111A and 251B.**309-2 Individual Income Tax.** Preparation of income tax returns. Federal income tax law as applied to individuals. Not open to those with a concentration in accounting.**315-4 Electronic Data Processing in Business.** Modern data processing techniques and their business applications. Includes functions and limitations of existing data processing equipment and various input, output, storage, memory, and communication devices. Batch processing versus real time processing concepts, and introduction to programming and system analysis. Prerequisite: 261.**331-4 Tax Accounting.** Study of accounting principles and procedures for meeting requirements of current laws and regulations which relate to federal income tax. Laboratory problems and preparation of tax returns with special emphasis on the individual taxpayer. Prerequisite: 261.**341-4 Cost Accounting.** Interpretation and managerial implications of material, labor and overhead for job order, process and standard cost systems, cost-volume-profit relationships. Accounting for complex process production flows, joint and by-products, spoilage, defective units, and scrap. Reports to management. Prerequisite: 261.**351-8 (4,4) Intermediate Accounting.** Further study of current accounting principles and procedures relating to various elements of financial reporting. Special emphasis on asset valuation, income determination, and alternative statement construction. Also, analysis and interpretation of statements; preparation and use of special statements. Must be taken in a,b sequence. Prerequisite: 261.**410-4 Accounting Concepts.** Interpretation and critical analysis of reports, statements and other accounting data from the viewpoint of users of financial information. For entering MBA students.**432-4 Problems in Federal Taxation.** Study of income tax problems which

arise from partnership, corporation, estate, and trust types of organization. Brief study of social security, federal estate, and gift taxes. Student does research in source materials in arriving at solutions of complicated tax problems. Prerequisite: 331.

442-4 Advanced Cost Accounting. Managerial control and profit planning through direct and relevant costing, return on investment, capital budgeting, inventory planning and control, subjective probabilities, statistical methods, and operations research. Nonmanufacturing costs, differential and comparative cost analysis. Prerequisite: 341.

453-4 Advanced Accounting. Advanced study of accounting principles and procedures relating to specialized topics, including partnership equity, installment and consignment sales, insurance, branch accounts, compound interest in relation to accounting practice, and preparation and use of consolidated statements. Prerequisite: 351-8.

455-4 Accounting for Public Organizations. Financial and managerial accounting concepts peculiar to the planning and administration of public and quasi-public organizations, such as governmental units, institutions, and charitable organizations. Includes the conventional budgetary-appropriation process, as well as some of the more recent accounting developments related to public decision making. Prerequisite: 261.

456-4 Auditing. Objectives, standards, and procedures involved in examining and reporting on financial statements of business organizations. Prerequisites: 331, 341, 351-8.

458-4 Accounting Systems. Accounting systems design and installation. Examination of existing systems and practice in systems design. Designing reports for management. Prerequisites: 341, 351-8.

459-4 Internship in Accounting. Supervised work experience in professional accounting. Prerequisite: outstanding record in accounting and recommendation of the committee on internship.

461-4 C.P.A. and Advanced Accounting Problems. Uses problems from the American Institute of Certified Public Accountants' examinations given in recent years and supplementary problems from selected sources. Prerequisite: 341 and 351b.

475-4 Budgeting and Systems. Study of concepts, methods, and tools used in the design of management information systems. A comprehensive budget program is developed to identify problems in coordinating and controlling business activities. Prerequisite: 261.

Aerospace Studies

100a-0 Corps Training.

101-1 Evolution of Conflict. One hour lecture-discussion; one hour Corps Training.

102-1 United States Defense Organization. One hour lecture-discussion; one hour Corps Training.

103-1 United States Military Posture. One hour lecture-discussion; one hour Corps Training.

200a-0 Corps Training.

201-1 United States Military Forces. Study of United States general purpose forces and how they support the United States commitment to Allied nations. Includes army, navy, and marine forces with emphasis on American tactical air power. Prerequisite: 101, 102, 103.

202-1 Aerospace Support Forces. Study of America's aerospace support forces, including Airlift, Research and Development, Logistics, Education and Training, and related supporting agencies. Prerequisite: 101, 102, 103.

203-1 Ideological Conflicts. Discussion of the conflict between totalitarian and democratic ideologies, including a historical analysis of Soviet and Red Chinese communism and the continuing struggle for peace through treaty organizations and international cooperation. Prerequisite: 101, 102, 103.

300-0 Corps Training.

301-3, 302-3, 303-3 Aerospace Studies 3 Professional Officer Course. A study of the nature of war, the growth and development of aerospace power, the United States Air Force, astronautics and space operations, and the future development of aerospace power. Involves specific exercise of written and spoken communication skills. Requires 3 hours lecture-seminar; A 1 hour corps train-

ing period is also required. Prerequisites: satisfactory completion of the GMC or six week field training course.

340-0 Corps Training.

351-3, 352-3, 353-3 Aerospace Studies 4. Professional Officer Course. A study of professionalism, leadership, and management. Includes professional responsibilities, the military justice system, leadership theory, functions and practices, management principles and functions, problem solving, and management tools, practices, and controls. Three hours lecture-seminar; A 1 hour corps training period is also required. Prerequisite: A.S. 301, 302, and 303, or with consent of the PAS.

Agricultural Industries

114-4 Introduction to Agricultural Economies. Agriculture in local and national economy; distribution; size and organization of the farm business units; policies affecting agriculture.

210-2 Introduction to Agricultural Education. An introduction to the history and philosophy of agricultural education.

215-4 Introduction to Farm Structures and Electrification. An introduction to the basic concepts of structures and electricity as they apply to agriculture. Includes farm structures, soil and water structures, and farm electrification.

259-3 to 60 Technology in Agriculture. This is a designation for credit earned in technical or occupational proficiency when credit is to be established (by departmental evaluation) for work above the high school level. Prerequisite: transfer from two-year program.

306-5 (3,2) Soil and Water Conservation. (Same as Plant Industries 306.) (a) The study of the theoretical factors affecting soil erosion and excessive water run-off, including practices of water management and soil conservation. Prerequisite: one course in soils. (b) Laboratory. Practical structural methods of controlling water run-off and soil erosion. Prerequisite: 306a or concurrent enrollment.

309-5 Agricultural Education. Methods of teaching agriculture in secondary schools. Take concurrently with 312 in a professional quarter. Field prerequisites: GSB 201b, Guidance 305, Secondary Education 310, 48 hours in agriculture.

310-4 General Agriculture. A survey of the agricultural field as it relates to the art and science of food and fiber production; problems in livestock and poultry production; soil and water management; and field crops, fruit, and vegetable production. No credit for Agriculture Majors.

311-3 Adult Education in Agriculture. Nature and scope of adult education in agriculture; methods of effectively working with adult and young farmer groups. Prerequisite: Guidance 305.

312-12 (2,10) Student Teaching in Vocational Agriculture. (a) Summer Practice. An internship with the vocational agriculture teacher in an approved center for practice in summer activities. (b) Student teaching. Experience in conducting a complete program in vocational agriculture in an approved center. Taken concurrently with 309.

350-5 Farm Management. Measuring profits, principles, and practice in organizing and operating the business. Field trips. Prerequisites: GSB 211a, junior standing.

351-4 Farm Financial Management. Farm records and accounts as aids in solving financial problems; obtaining and using credit and insurance, budgeting. Prerequisite: 350 or consent of instructor.

352-3 Agricultural Prices. Fluctuations in the general price level, causes and stabilization policies as they affect agriculture. Price determination including the measurement of supply and demand, elasticity, their application to price stabilization. Prerequisites: 354, GSB 211a.

354-3 Agricultural Marketing. Marketing outlets for farm products, price determinants, agricultural market efficiency, margins, and costs. Prerequisite: GSB 211a.

373-5 Farm Power and Machinery. A basic course to acquaint the student with the principles, operating adjustments, maintenance, and management of common farm power units and field machines. Prerequisite: Mathematics 111a or equivalent.

375-3 Farm Shop. Set-up of the farm workshop; selection, care, and use of

tools and machinery for farm repair work; equipment construction. Prerequisite: Mathematics 111a or equivalent.

381-1 to 2 Agricultural Seminar. (Same as Animal Industries 381, Forestry 381, and Plant Industries 381.) Discussions of problems in agriculture. Limited to senior students.

390-1 to 6 Special Studies in Agricultural Industries. Assignments involving research and individual problems. Field trips. Prerequisite: consent of chairman.

410-2 to 4 Problems in Agricultural Services. Discussion, assignments, and special workshops on problems related to in-service training programs in the agriculturally related fields. Development of more effective programs in working with farm people. Prerequisite: graduate student in agricultural services or consent of instructor.

411-3 Agricultural Extension. A study of the history, organization, objectives, programs, and methods of agricultural extension work. Prerequisite: Journalism 393 and a course in psychology or sociology or consent of instructor.

412-4 Principles of Agricultural Mechanization. Theory and use of remote controls, electric motors, survey kits, and other devices adaptable to the needs and interests of educators involved in agricultural mechanization laboratories. Prerequisite: Secondary Education 310.

417-4 Agricultural Development in Emerging Countries. Principles and practices in improving agriculture in areas with limited capital and low levels of technology. Special emphasis on developments in Asia, Africa, and South America. Prerequisite: GSB 211a.

450-4 Advanced Farm Management. Methods of analyzing farm enterprises, comparing farm businesses, allocating farm resources, combinations of enterprises, and production factors. Field trips. Prerequisite: 350.

456-11 (3,2,2,2,2) Agricultural Marketing Problems and Practices. (a) Cooperatives. Development of the agricultural cooperative movement, agricultural cooperative organization, legal requirements, principles and practices of agricultural cooperative associations. (b) Livestock. Problems and their solutions in marketing livestock. (c) Field Crops. Problems and their solutions in marketing field crops. (d) Dairy and Poultry. Problems and their solutions in marketing dairy and poultry products. (e) Horticultural crops. Problems and their solutions in marketing horticultural crops. Field trips cost \$5. Prerequisites: 354, GSB 211a, or consent of instructor.

471-4 Land Resource Economics. (Same as Forestry 471 and Economics 471.) The use of land as an economic variable in production of goods and services; land markets; group versus individual conflicts; elementary land resources planning techniques. Field trips. Prerequisite: 350 or Forestry 470.

473-4 Advanced Farm Power. Farm power theory and its application, for training teachers to diagnose and correct difficulties in engine, power transmission, and hydrostatic systems. Prerequisite: 373 or equivalent.

478-4 Advanced Farm Machinery. Materials on construction; basic mechanics involved in tillage machinery; rotary power transmission; product cleaning, drying, and sorting; costs of operation; materials handling. Prerequisites: 350, 373, 374, or consent of instructor.

505-3 Agricultural Economics Research Methods.

512-3 to 6 Agricultural Occupation Internship.

520-1 to 6 Readings.

520b-1 to 6 Readings in Resource Economics.

550-4 Production Management.

552-2 Advanced Agricultural Prices.

554-4 Advanced Agricultural Marketing.

575-1 to 6 Research.

581-1 to 6 Seminar.

599-2 to 9 Thesis.

Animal Industries

121-5 Animal Science. Animal industry as related to human needs.

259-3 to 60 Technology in Agriculture. This is a designation for credit earned in technical or occupational proficiency when credit is to be established (by departmental evaluation) for work above the high school level. Prerequisite: transfer from two-year program.

- 311-7 (2 or 3,2,2) Evaluation and Selection of Farm Animals and Animal Products.** (a) Comparative selection and evaluation of livestock and poultry and their products. (b) Grading and selection of breeding and producing meat animals, dairy or poultry. (c) Comparative grading and selection of live animals and evaluation of products. Those with interest in livestock or poultry must take in a, b, c, sequence, while those interested in dairy must take in b, c, sequence. Prerequisite: 121, 311b, or 318 or consent of instructor.
- 315-4 Feeds and Feeding.** Principles of domestic animal nutrition and feeding. Balancing rations. Prerequisite: 121.
- 316-4 Insect Pests and Their Control.** (See Zoology 316.)
- 318-3 Meat, Animal, and Carcass Evaluation.** Carcass quality, grade and cut-ability of beef, pork, and lamb as related to consumer acceptance characteristics to include meat color, texture, firmness, tenderness, and palatability. The influence of live animal value on yield of trimmed retail cuts. Prerequisite: 121 and concentration in animal industries.
- 319-3 Horses.** Types, breeds, selection, use, care, and management of saddle and draft animals. Field trip. Prerequisite: 315 or consent of instructor.
- 321-4 Processing and Grading of Poultry Products.** Skills required in price determination, processing, grading, storage, merchandising, and distribution of poultry products. Prerequisite: 121.
- 327-4 Poultry Management.** Principles and practices of incubation, brooding and rearing, and disease prevention, control, and diagnosis. Prerequisite: 121.
- 332-4 Animal Breeding and Genetics.** The application of the basic principles of genetics and breeding systems to the improvement of farm animals. Prerequisites: 121; GSA 201b or equivalent.
- 337-4 Animal Hygiene.** Contagious, infectious, and nutritional diseases and parasites of animals; their prevention and control. Field trip. Prerequisites: 121.
- 381-1 to 2 Agricultural Seminar.** (Same as Agricultural Industries 381, Forestry 381, and Plant Industries 381.) Discussions of problems in agriculture. Limited to junior and senior students.
- 390-1 to 6 Special Studies in Animal Industries.** Assignments involving research and individual problems. Approval of department chairman required. Juniors and seniors only.
- 415-8 (4,4) Animal Nutrition.** (a) Physical and chemical properties of nutrients and their uses and principles involved in determination of nutrient requirements. (b) An integration of the basic facts concerning the nature of nutrients and their metabolism. Must be taken in a,b sequence. Prerequisite: 315 and organic chemistry or equivalent.
- 420-4 Commercial Poultry Production.** Broilers, layers, and turkeys as adapted to poultry specialty farms. Field trips. Prerequisite: 121.
- 430-4 Dairy Production.** Milk sanitation, feeding, breeding, calf raising, records, buildings and equipment, sanitation, and diseases. Field trip. Prerequisites: 231, 315, 332.
- 431-4 Reproduction and Artificial Insemination of Farm Animals.** The anatomy and physiology of reproduction and the principles of artificial insemination in farm animals. Field trip. Prerequisites: 105 or 231; GSA 201C or equivalent.
- 432-3 Quantitative Inheritance of Farm Animals.** A review of the principles underlying the influence of mutation, selection, migration, and random drift in animal breeding populations; estimation and interpretation of heritabilities and genetic correlations; effects of variances of quantitative traits of farm animals. Prerequisite: 332.
- 433-3 Dairy Cattle Nutrition.** Application of the latest knowledge of digestion and metabolism in ruminants, and their nutritional requirements to dairy herd feeding. Prerequisite: 315.
- 456-4 (2,2) Agricultural Marketing Problems and Practices.** (b) Livestock. Problems and their solutions in marketing livestock. (d) Dairy and poultry. Problems and their solutions in marketing dairy and poultry products. Prerequisites: GSB 211a, Agricultural Industries 354 or consent of instructor. (See also Agricultural Industries 456.)
- 465-4 to 5 Swine Production.** Breed selection, breeding, feeding, management, and marketing of swine. Field trip. Prerequisites: 315, 332.
- 480-4 Sheep Production.** Breeding, feeding, and management of sheep. Field trip. Prerequisites: 315, 332, 431.
- 485-4 Beef Production.** Breeding, feeding, and management of beef and dual-purpose cattle. Field trip. Prerequisites: 315, 332, 431.

- 487-4 Commercial Livestock Feeding.** Consideration of principles and problems in fattening beef cattle and sheep for market. Field trip. Prerequisites: 315 and organic chemistry.
- 505-8 (4,4) Research Methods in Agricultural Science.**
- 520-1 to 6 Readings in Animal Industries.**
- 525-4 Advanced Poultry Production.** Prerequisite: Organic Chemistry.
- 530-4 Advanced Dairy Production.**
- 565-4 Advanced Swine Production.**
- 575-1 to 6 Individual Research.**
- 579-4 Animal Behavior.**
- 581-1 to 6 Seminar.**
- 599-2 to 9 Thesis.**

Anthropology

- 275-2 to 24 (2,2,2,2 to 18) Individual Study.** (a) Africa, (b) Asia, (c) Latin America, (d) general. Anthropological topics are studied on an individual, or other, basis not provided by GSB 102a-4. The academic work may be done on the campus or in conjunction with approved off-campus (normally field research) activities. Prerequisite: consent of department.
- 300-3 Physical Anthropology.** Man as a biological being, his relationships to other living things. Human origins and development. Concept of race and the races of mankind. Human genetics and normal human variation. Prerequisite: 275d or GSB 102a.
- 303-3 Old World Prehistory.** A survey of man's earliest cultural beginnings. Paleolithic and Neolithic periods in Europe, Africa, the Near East, and Asia. Prerequisite: 275d or GSB 102a.
- 304-3 The Origins of Civilization.** A study of the complex environmental and cultural factors that led to the rise and fall of early high-cultures in both the Old and New Worlds. Prerequisite: 275d or GSB 102a.
- 305-9 (3,3,3) Peoples and Cultures of the World I.** The biological and cultural history of man in (a) North America, (b) Asia, and (c) Oceania from early times to the present. Prerequisite: 275d or GSB 102a.
- 306-9 (3,3,3) Peoples and Cultures of the World II.** The biological and cultural history of man in (a) South America, (b) Europe, and (c) Africa from early times to the present. Prerequisite: 275d or GSB 102a.
- 400-3 Man and Culture.** The nature of culture and cultural process. Relationships of culture and man as an individual and as a group. Emphasis on "the anthropological point of view." Prerequisite: 275d or GSB 102a.
- 401-4 Language in Culture.** Language as a part of culture. Linguistics and the study of culture. Prerequisite: 275d or GSB 102a.
- 402-3 Human Biology: The Interaction of Biological and Cultural Behavior.** The viewing of man as to his zoological position, genetics, past and present; and the biological bases for his unique behavior in the animal world, i.e., cultural behavior. Prerequisite: 275d or GSB 102a.
- 404-4 Primitive Art and Technology.** The development of man as a tool-using and art-loving being. Artistic and technological traditions of non-Western peoples, past and present. Prerequisite: 275d or GSB 102a.
- 405-3 Social Anthropology.** A comparative approach to the organizational features of human groups. Functional aspects and distributions of kinship, political, religious, and economic systems. Prerequisite: 275d or GSB 102a.
- 408-3 History of Anthropological Thought.** The growth of anthropology as an academic discipline to about 1940, with emphasis upon the concepts and ideas since 1860. Prerequisite: 275d or GSB 102a.
- 409-3 Anthropology and Modern Life.** The applications of anthropological principles to the solution of problems of the modern world. Contributions of anthropology to the work of the educator, social worker, administrator, business man, government official, and other specialists dealing with man in Western and non-Western cultures. Prerequisite: 275d or GSB 102a.
- 413-3 Introduction to General Linguistics.** A study of language theory, classification, and change. Prerequisite: 275d or GSB 102a.
- 415-3 Logic of the Social Sciences.** (Same as Philosophy 415.) Logical and epistemological examination of the social studies as types of knowledge. Basic problems in philosophy of science with major emphasis upon social science; relationship of theory to fact, nature of induction, nature of causal law, testability, influence of value judgments, etc. Intended for students with con-

siderable maturity in a social science or in philosophy. Prerequisite: 275d or GSB 102a.

418-4 Languages of the World. A description of typological and genetic (historical) relationships among languages of the world with emphasis on comparative phonology and grammatical structure in time and space. Prerequisite: 275d or GSB 102a.

430-3 Archaeology of North America. Introduction to methods of archaeology and survey of prehistoric Indian cultures north of Mexico, with emphasis on cultures of the Mississippi Valley. Prerequisite: 275d or GSB 102a.

441-3 Comparative Economics. A comparative study of economic systems, with emphasis upon those found in primitive societies. Studies of systems which fall outside the conventional systems such as capitalism, socialism, and fascism. Prerequisite: 275d or GSB 102a.

442-3 Comparative Folklore. A comparative study of the role of folklore in various cultures of the world, with emphasis upon non-literate societies. Analysis of motifs, themes, and other elements; comparisons between non-literate and literate groups. Prerequisite: 275d or GSB 102a.

443-3 Comparative Law. Legal premises upon which societies are based; systems of the non-literate world; case studies of instances where these systems come into contact with those of literate, technologically advanced cultures. Prerequisite: 275d or GSB 102a.

444-3 Comparative Religion. Comparative study of religious systems, with emphasis upon those of non-literate societies. Examination of basic premises and elements of these belief systems, normally excluded from discussions of the "Great Religions." Prerequisite: 275d or GSB 102a.

483-1 to 18 Individual Study in Anthropology. Guided research upon anthropological problems. Students should consult the chairman before enrolling. Prerequisite: 275d or GSB 102a.

510-3 to 9-Seminar in New World Archaeology.

511-3 to 9 Seminar in Mesoamerican Archaeology.

512-3 to 9 Seminar in Old World Archaeology.

520-3 to 9 Seminar in the Ethnology of the New World.

521-3 to 9 Seminar in the Ethnology of Mesoamerica.

522-3 to 9 Seminar in the Anthropology of Oceania.

523-3 to 9 Seminar in the Anthropology of Africa.

524-3 to 9 Seminar in the Anthropology of Europe.

535-3 to 9 Seminar in Physical Anthropology.

545-3 to 9 Seminar in Linguistics.

550-3 to 9 Seminar in the Cultures of Latin America.

560-3 to 9 Seminar in Comparative Social Organization.

562-3 to 9 Seminar in the Anthropology of Contemporary Peoples.

565-3 to 9 Seminar in Cultural Change and Development.

567-3 to 9 Seminar in Anthropological Theory and Method.

570-3 to 9 Seminar in Art and Technology.

575-3 to 9 Seminar in the Individual and Culture.

581-3 to 9 Seminar in Anthropology.

582-1 to 27 Problems in Archaeology.

584-1 to 27 Problems in Cultural Anthropology.

585-1 to 27 Readings in Anthropology.

595-6 (3-3) Field Methods in Ethnology.

596-6 (3-3) Field Methods in Archaeology.

597-1 to 27 Fieldwork in Anthropology.

599-1 to 9 Thesis.

600-1 to 48 Dissertation. (No more than 18 hours in any quarter).

Applied Science

300-5 University Physics IV. (See Physics 300)

323-3 Introduction to Computer Science. Historical development of computers. Logical basis of computer structure; machine representation of numbers and characters; number systems. Current and prospective developments in computer hardware and software. Survey of special purpose computer usage including information retrieval, heuristics, simulation, file manipulation, sorting, and "total information systems." Prerequisite: Engineering 222, or Mathematics 225, or Management 455; Mathematics 150a.

401-12 (4,4,4) X-Ray Crystallography. (a) Introductory Crystallography. Lattice theory of the crystal. Miller indices. Crystal zones. The Bravais lattices. Symmetry elements. Proper and improper rotations. Point groups: crystal classes. Operators involving translation. Space groups. Elements of crystal structure. Coordination. Structure types. (b) X-Ray Diffraction Techniques. X-ray diffraction by single crystals: fundamental equations. Reciprocal lattice and Ewald sphere. Optical analog: The optical diffractometer. Single crystal photographic methods: the Laue method: rotating and oscillation, Weissenberg, Buerger-precession and Jong-Bourman. Divergent and convergent-beam techniques. Interpretation of the x-ray diagrams. Diffractometric methods; fundamentals. Identification of polycrystalline materials with x-ray diffractometer (power method). Single crystals diffractometry. Absolute intensity measurements. (c) Crystal Structure Analysis. Fundamental diffraction relations. Determination of the cell size, chemical formula, symmetry and space group. Measurement of intensities: geometrical and physical factors affecting intensities. The structure factor; phase of the structure factor. The anisotropic temperature factor. Fourier synthesis. Electron-density projections. The phase problem. Utilization of anomalous dispersion. Direct determination. The Patterson method. Refinement of the structure with high speed computers.

410-3 Instrumentation for the Life Sciences. Discussion of instruments, primarily electronic, for measurement, test, and control purposes as applied in the life sciences. Prerequisite: consent of instructor.

418-3 Digital Computers in Research. Computational techniques for matrix inversion, solution of linear equations, and characteristic roots and vectors; least squares analysis, curve-fitting, and regression; design of experiment; solution of nonlinear equations; min-max functional approximation techniques; generation of approximate solutions, Monte Carlo techniques. Prerequisite: Engineering 222 or Mathematics 225 or equivalent and concurrent enrollment in Mathematics 421a.

421-3 Programming Languages. A study of the development and use of programming languages for high speed stored program digital computers. Included are problem-, procedure-, and machine-oriented languages, symbolic languages, interpretive systems, macro assemblers, and list processors. A comparison of the languages will be made and each student will prepare programs using the languages studied. Prerequisite: Engineering 222, Mathematics 225 or consent of instructor.

422-3 Programming Systems. The use and methods of electronic data processing systems. Topics are searching, ordering, codifying, information retrieval, process control, executive routines, and heuristic programming. The student will apply system techniques for solution of problems using one or more of the available high speed digital computers. Prerequisite: Engineering 222 or Mathematics 225 or consent of instructor.

430-2 to 8 Special Problems. Special opportunity for students to obtain assistance and guidance in the investigation and solution of selected technical problems. Prerequisite: consent of coordinator.

431-9 (3,3,3) Nuclear Science. An introductory course to provide a background for further work in Nuclear Science. Lectures and problems in radioactivity and the uses of radio isotopes, nuclear engineering, introductory reactor theory, and use of an analog computer in solving problems of neutron transport and reactor kinetics. Prerequisites: Mathematics 252b and Applied Science 300.

432-3 Nuclear Laboratory. Health physics instruments; characteristics of alpha, beta, and gamma rays; radioactive decay; counting statistics; fundamental neutral experiments. Prerequisite: 300.

470-6 (3,3) Engineering Analysis. (a) Basic vector field theory; transformation theorems. Methods of solution for basic ordinary differential equations with applications to engineering systems. Prerequisite: Mathematics 252b (b) Basic methods of solution for partial differential equations with emphasis on applications of the Laplace, Poisson and heat equations to engineering problems. Basic complex variables, matrix theory, numerical analysis and simulation techniques applied to engineering systems. Prerequisite: 470a or Mathematics 305a.

501-16 (4,4,4,4) Materials Science.

503-12 (4,4,4) Physical Properties of Crystalline Materials.

504-12 (4,4,4) X-Ray Diffraction and the Solid State.

521-6 (3,3) Design of Automatic Programming Language Processors.

522-6 (3,3) Programming Systems Design.

530-3 Nuclear Processing.

570-2 to 6 Special Investigations.

580-1 to 9 Seminar.

599-1 to 9 Thesis.

Art

Art Education Courses: 300, 306, 307, 308, 365, 408, 460, 466, 560, 566, 599.

Art History Courses: 225, 309, 345, 346, 347, 348, 349, 350, 356, 369, 380, 445, 449, 471, 473, 475, 482, 483, 571, 573, 599.

Studio Courses: 100, 200, 302, 325, 332, 341, 358, 385, 393, 400, 401, 404, 405, 406, 410, 416, 420, 426, 430, 436, 440, 441, 446, 493, 501, 502, 504, 506, 511, 516, 520, 526, 530, 540, 546, 599.

100-15 (5,5,5,5,5) Basic Studio. A studio course in visual fundamentals emphasizing the ways in which art may be structured. (a) Sculpture-crafts. (b) Crafts-sculpture. (c) Painting-graphics. (d) Graphics-drawing. (e) Drawing-painting.

200-12 (4,4,4) Studio Disciplines. Disciplines in drawing, painting, and sculpture. (a) Sculpture. (b) Drawing. (c) Painting. Prerequisite: 100-15.

225-9 (3,3,3) Introduction to Art History. The student is acquainted with the nature of art as a human activity in order to gain an understanding of its significance now and in the past through three distinct sequential courses: (a) the nature of visual art and history, (b) classification of art in major historical periods, and (c) representative problems in the history of art.

300-12 (4,4,4) Art Education. Theory and practice of art activities in the elementary schools. Designed for elementary education students.

302-2 to 12 Pottery. Advanced subject matter adjusted with reference to number of hours of credit in ceramics previously earned.

306-3 Materials and Techniques in Art Education. Studio courses providing a broad experimental experience with materials and techniques adaptable to art classes in grade and high school. In addition to studio assignments, each student is required to complete a working file of published material and notes on materials and techniques in art.

307-3 Theory and Philosophy of Art Education. Survey of art education theory providing the art education student with an introduction to theoretical studies in his field, and through scheduled observation visits to art classes at the University School, with the problems of relating theory to practice.

308-3 Curriculum and Administration in Art Education. Provides experience in dealing with problems of planning, organizing, introducing, and administering art curricula in grade and high school. Includes comparative study of published material and preparation of a working file on the subject.

309-3 Oriental Art. A survey of Asiatic arts.

320-2 to 12 Oil Painting Techniques. Individual work in the development of painting ideas. Prerequisite: 100, 200.

325-2 to 15 Studio. No more than 4 hours per quarter. Prerequisites: 8 hours in medium of choice (except where such courses do not exist) and consent of instructor.

332-2 to 12 Jewelry and Silversmithing. Basic processes in jewelry and metalwork. Emphasis upon design experience and high critical standard.

GSC 340 Art of the Nineteenth Century. A survey of modern art history from the French Revolution to the present: (a) art from the beginning of the Romantic period through Impressionism, (b) post impressionism and the early 20th century, and (c) art since the First World War.

340-9 (3,3,3) Art of the 19th and 20th Centuries. A survey of modern art history from the French revolution to the present. (a) Art from the beginning of the Romantic period through Impressionism. (b) Post Impressionism and the early 20th century. (c) Art since the first world war. Prerequisite: 225.

341-2 to 12 Drawing.

350-6 (3,3) American Art. A survey of American painting, sculpture, and architecture from the early 18th century to the present.

356-3 Theory of Art.

358-2 to 12 Prints. Introduction to printmaking as a medium. Studio projects in intaglio, relief, and planographic processes.

365-4 Art Education in the Secondary Schools. For art education students preparing to teach on secondary level; includes studio projects designed to develop awareness of technical and aesthetic needs of high school students, reading and discussion of literature, planning of curriculum.

369-3 Primitive Art. A study of the arts of "Primitive" peoples of Africa, the Pacific, and the Americas. Characteristic works are interpreted in context with the general conditions of primitive society. The significant influences of primitive art on modern painting and sculpture are considered.

380-4 Theory and Appreciation of Art.

385-2 to 12 Weaving. Development of understanding of two and four harness loom and essential processes in weaving simple and pattern textiles.

393-4 to 12 Sculpture. Problems in modeling, carving, casting and construction. Prerequisite: 200-12.

401-2 to 12 Research in Painting.

405-2 to 12 Studio in Sculpture.

406-2 to 12 Studio in Painting.

408-4 Art Education for Elementary Teachers II.

410-2 to 12 Research in Prints.

416-2 to 12 Studio in Prints.

420-2 to 12 Research in Pottery.

426-2 to 12 Studio in Pottery.

430-2 to 12 Research in Metal Construction.

436-2 to 12 Studio in Metal Construction.

440-2 to 12 Research in Weaving.

441-2 to 6 Studio in Drawing.

445-9 (3,3,3) Modern Art. (a) 19th century, (b) Early 20th century (c) Mid 20th century.

446 2 to 12 Studio in Weaving.

447a-3 The Art of Ancient Egypt and The Near East. A survey of principal monuments and archeological evidence relevant to an appraisal of the origins and development of art in the early civilizations of Africa, Western Asia, Europe, and the Aegean from prehistoric times to the rise of the Persian Empire.

447b-3 The Art of Ancient Greece. A study of the origins, development and influence of art produced in Greece and its colonies from the Bronze age to the Roman Empire.

447c-3 The Art of the Ancient Romans. An appraisal of the natural culture and art of the Roman civilization, its debt to other ancient civilizations and achievements in architecture, sculpture and painting from its foundation until the reign of Constantine.

448a-3 Early Christian and Byzantine Art. A survey of problems related to art and architecture produced in Christian communities and under the aegis of the Byzantine Empire until the fall of Constantinople.

448b-3 Early Medieval and Romanesque Art. A study of the development of architecture and art in Europe from the fall of the Roman Empire to the formulation of the Gothic style.

448c-3 Gothic Art. A survey of major developments in Architecture, Sculpture and Painting in Europe from the earliest formulation of Gothic style to its decline in the Renaissance period.

449a-3 Art of the Renaissance in Europe. A study of developments in art during the 15th century in Italy and the Lowlands leading to the High Renaissance and its impact on European painting, sculpture and architecture of the 16th century. Prerequisite: 225-9.

449b-3 Baroque Art in Europe. A study of the formation of national styles in the arts of Italy, Spain, Austria, Germany, France, Flanders and Holland from the 16th to the 17th centuries with particular attention to major masters.

449c-3 The Art of 18th Century Europe. A study of architecture, sculpture and painting in European countries and colonies from the end of the seventeenth century to the French Revolution with particular emphasis on the Rococo Art of Italy, England, Spain and France.

450-1 The Visual Arts in Higher Education.

451a-3 Art of Ancient Asia and America. A survey of early developments in architecture and the plastic arts of related civilizations in India, China, Japan and Ancient America, from prehistoric evidence to major monuments of the First Millennium A.D.

451b-3 Painting in the Far East. General survey of the major pictorial arts of China from six dynasties to Ch'ing dynasty, of Korea from Silla period to

Ti dynasty, and of Japan from Asuka to Edo periods. An attempt will be made to trace influences central to the development and spread of important styles and to relate art to the classics of Oriental aesthetics.

451c-3 Islamic Art. A survey of important monuments and art works produced in the context of Islamic culture in the Near East, Africa, Spain, Persia, Turkey and India from the 7th century to the present.

460-2 to 12 Research in Art Education.

466-2 to 12 Studio in Art Education.

482-15 (3,3,3,3,3) Art History Seminar. Lectures, discussions and reports on subjects of special interest which will be announced periodically in the following general areas: (a) ancient art, (b) medieval art, (c) Renaissance art, (d) modern art, and (e) oriental art.

483-15 (3,3,3,3,3) Research in Art History. Individual research in the painting, sculpture, architecture, and related art in the following areas: (a) ancient art, (b) medieval art, (c) Renaissance art, (d) modern art, and (e) oriental art.

493-2 to 12 Advanced Sculpture.

501-2 to 12 Seminar in Painting.

502-2 to 12 Seminar in Sculpture.

504-2 to 12 Research in Sculpture.

506-2 to 12 Research in Painting.

511-2 to 12 Seminar: Print Making.

516-2 to 12 Research in Prints.

520-2 to 12 Seminar in Pottery.

526-2 to 12 Research in Pottery.

530-2 to 12 Seminar in Metal Construction.

536-2 to 12 Research in Metal Construction.

540-2 to 12 Seminar in Weaving.

546-2 to 12 Research in Weaving.

560-2 to 12 Seminar in Art Education.

566-2 to 12 Research in Art Education.

571-2 to 5 Readings in Art History.

573-3 to 12 Problems in Art History.

599-5 to 9 Thesis.

Biology

305-4 Genetics-Classical and Molecular. Broad principles of genetics, including Mendelism, chromosomal behavior, genetic mapping and mutation, allelism, genes and development, polygenic systems, inbreeding and outbreeding, and genetic applications. Prerequisite: GSA 201b, or 210B, or advanced standing in biology.

306-4 Developmental Biology. Basic principles including cell concepts, reproduction from the macromolecular to the cellular level, transmission of developmental information, evolutionary compensation phenomena, and aging. Prerequisite: GSA 201b, or 210b, or advanced standing in biology.

307-4 Environmental Biology. Broad principles of ecology on the organismic level, the population level, and the community level. Includes environmental factors, adaptations, energy and material balance, succession, and human ecology. Prerequisite: GSA 201b, or 210b, or advanced standing in biology.

308-4 Organismic Biology. Structural and functional organization of organisms including reproduction, biological clocks, hormones, and transport, respiratory, skeletal, and secretory systems. Prerequisite: GSA 201b, or 210b, or advanced standing in biology.

Botany

300-4 Morphology of Non-Vascular Plants. Introduction to the structure, development, and relationships of the algae, fungi, and bryophytes. Prerequisite: GSA 201b.

301-4 Morphology of Vascular Plants. Introduction to the structure, development, and relationships of the fern-allies, ferns, gymnosperms, and angiosperms. Prerequisite: GSA 201b. Recommended: Botany 300.

GSA 303-3 Ferns, Trees, and Wild Flowers: The Pleasure of Recognition.

308-5 Taxonomy of Cultivated Plants. A study of the classification of woody and herbaceous cultivated plants, both exotic and native. Prerequisite: consent of instructor.

315-4 Plant Genetics. (Same as Plant Industries 315.) A general course involving principles of evolution and genetics of plants. Prerequisite: secondary concentration in agriculture, botany, or zoology.

320-5 Elements of Plant Physiology. A study of the functions of plants and their relation to the various organs. Three lecture and 4 laboratory hours per week. Prerequisite: GSA 201b; chemistry 350 or a secondary concentration in chemistry.

321-3 to 5 Elementary Botanical Microtechnique. Methods of preservation and preparation of plant materials for examination by the light microscope. One lecture and 4 laboratory hours per week. Prerequisite: GSA 201b.

GSA 340-3 Ecology.

341-3 Autecology. An introduction to plant life processes and life form in relation to the factors of the environment. Prerequisite: 320, GSA 340, or consent of instructor. Field and laboratory expenses \$5.

GSA 345-3 Economic Botany.

390-2 to 4 Readings in Botany. A course of individually assigned readings in classical botanical literature; both oral and written reports required; open only to undergraduate students. Prerequisites: concentration in botany, consent of instructor.

391-2 to 5 Special Problems in Botany. Individual laboratory or field work under supervised direction. Both written and oral discussions required. Prerequisite: concentration in botany, consent of department or division.

392-3 to 21 Botany. Individual research problems available to qualified juniors and seniors. Prerequisite: consent of department.

400-5 Plant Anatomy. An introduction to cell division, development, and maturation of the structures of the vascular plants. Laboratory. Cost \$5. Prerequisites: 300, 301.

404-5 The Algae. Structure, development, and relationships of the algae. Laboratory and some field work. Prerequisite: 300.

405-5 Mycology. Structure, development, and relationships of the fungi. Problems of economic and scientific interest stressed. Laboratory. Prerequisite: 300.

406-5 Industrial Mycology. A consideration of the myriad ways in which fungi impinge on man's affairs, with special emphasis upon their various industrial application—real and potential. Three-lectures and 4 laboratory hours per week. Prerequisite: 405 or consent of instructor.

411-4 The Bryophytes and Pteridophytes. Structure, development, and relationships of the liverworts and mosses, and the ferns and fern allies. Laboratory. Prerequisite: 301.

412-4 The Spermatophytes. Structure, development, and relationships of the gymnosperms and angiosperms. Laboratory. Prerequisites: 301, 313, or GSA 303.

414-5 Paleobotany. (Same as Geology 414). An introduction to the study of fossil plants emphasizing the major features of plant evolution and the applications of paleobotany to problems in the botanical and geological sciences. Lecture, laboratory, and field trips. Student cost about \$5. Prerequisite: 310 or 400 or consent of instructor.

420-4 Physiology of Fungi. A treatment of the physiological activities of fungi with particular stress upon (1) those aspects peculiar to the group by virtue of their being non chlorophyllous plants, and (2) exploration of the possible explanations of the parasitic vs. the saprophytic habit. Prerequisite: consent of instructor.

425-15 (5,5,5) Advanced Plant Physiology. (a) Physics of the plant, water relations, membrane phenomena, photobiology. (b) Chemistry of the plant; anabolic and catabolic processes, photosyntheses, respiration, chemosynthesis. (c) Covers the absorption, translocation, function and interaction of inorganic nutrient elements in green plants with application to forest, agronomic, and horticultural species. Prerequisites: 320, Chemistry 350, or a secondary concentration in chemistry.

428-3 Plant Nutrition. The physiological importance of carbon, nitrogen, and phosphorus-containing compounds is stressed. Prerequisites: organic chemistry, secondary concentration in botany or agriculture.

440-4 Ecology of Grasses and Grasslands. Structure, analysis, and dynamics of grassland communities; structure and growth of individual species. Field

and laboratory work costs about \$5. Prerequisite: GSA 340 or consent of instructor.

445-5 Ecology of Forests and Arable Lands. Forest areas in North America. Developmental and structural analysis of forest types. Autecology of important species. Field trips, approximate cost \$10. Prerequisite: GSA 340.

449-3 Elements of Taxonomy. Principles of taxonomy including historical sketch, phyletic concepts, biosystematics, classical and experimental methods. Lecture. Laboratory. Prerequisite: 313 or equivalent, or consent of the instructor.

450-3 Plant Geography. World distribution of plants related to environmental, floristic, and historical factors. Prerequisites: consent of instructor.

451-4 Introduction to Floristics. Principles involved and methods used in the analysis of the flora of an era. Laboratory and field work. Student cost about \$10. Prerequisite: Botany 313, or GSA 303.

456-5 Plant Pathology. (Same as Plant Industries 455.) A study of plant diseases caused by fungi, bacteria, and viruses. Special attention given diseases of southern Illinois plants. Laboratory and field trips. Lab charge. Prerequisite: consent of instructor.

457-4 Forest Pathology. Nature and control of forest and shade tree diseases. A study of tree diseases in forests, parks, streets, and nurseries. Fungi important in decay and stain of timber and its products are included. Lab charge. Prerequisite: consent of instructor or 456.

470-4 Methods of Teaching High School Biology. Methods, objectives, types of courses taught in secondary school biology. Laboratory and field trips. Prerequisite: concentration in botany or zoology.

480-4 Classic Principles of Botany. Theories, principles, and developments in the various divisions of the plant sciences. Prerequisites: GSA 201c, or consent of instructor.

500-5 Biosystematic Plant Anatomy.

503-15 (5,5,5) Advanced Angiosperm Taxonomy.

510-4 Bio-Ecology.

522-5 Advanced Microtechnique.

525-5 Cytology.

526-5 Cytogenetics.

533-3 to 4 Growth and Development in Plants.

535-3 Energetics of Aquatic Ecosystem.

542-3 Biosystematics.

543-5 Experimental Ecology.

551-4 The Natural Vegetation of the Mississippi Basin, Upland.

552-4 Mississippi Flora, Aquatic.

555-12 (4,4,4) Advanced Plant Pathology.

570-2 to 5 Readings.

580-1 to 4 Seminar.

581-4 Advanced Systematics.

590-2 to 4 Introduction to Research.

591-3 to 9 Research.

599-3 to 9 Thesis.

600-1 to 36 Dissertation.

Chemistry

110-4 General and Inorganic Chemistry. A brief introduction to the structure of the atom and chemical bonding; acids, bases, salts, and pH; and a study of the properties and reactions of some of the more common elements. Three lecture and 3 laboratory hours per week. Not applicable to a concentration or to a secondary concentration in chemistry. No prerequisite.

115-5 Introductory General Chemistry. Equivalent to a year of high school chemistry. For students who have had less than a year of high school chemistry and who require a year or more of college chemistry. May be audited by students who have had a year or more of high school chemistry. Three lectures, four laboratory hours, and one recitation per week.

121-10 (5,5) General Chemistry and Qualitative Analysis. For students requiring at least 10 hours of chemistry, including those concentrating in chemistry or other scientific, pre-professional, or technological areas. (a) Basic principles of chemistry and chemistry of non-metals; emphasis on chemical calculations. (b) Chemistry of metals, alloys, amphoterism, co-

ordination compounds, and ionic equilibria; laboratory work includes qualitative analysis of certain cations, anions, and alloys. Must be taken in a,b sequence. Prerequisite: 115 or 1 year of high school chemistry.

235-5 General Quantitative Analysis. Introduction to theories and methods of volumetric and gravimetric techniques. Three lecture and 6 laboratory hours per week. Prerequisite: 121b.

240-4 Organic Chemistry. A survey course not open to those concentrating in chemistry. An introduction to aliphatic and aromatic compounds with emphasis on those of biological importance. Three lecture and 3 laboratory hours per week. Prerequisite: 110 or 121a.

305-10 (5,5) Organic Chemistry, Preprofessional. For secondary concentration in chemistry and preprofessional students. Lecture and laboratory. Must be taken in a,b sequence. Prerequisite: 111c.

341-15 (5,5,5) Organic Chemistry. Three lecture and 6 laboratory hours per week. Must be taken in a,b,c sequence. Prerequisite: 111c.

350-4 Biological Chemistry. A brief introduction to metabolism, nutrition, and the chemistry of the important biological processes in plants and animals. Three lecture and 3 laboratory hours per week. Prerequisite: 240 or 305b or 341c.

375-0 to 2 Undergraduate Seminar. For seniors with a concentration in chemistry.

411-4 Intermediate Inorganic Chemistry. Modern inorganic chemistry involving atomic structure, chemical bonds, complexes, and chelate structures; with emphasis on physical chemical principles. Four lecture hours per week. Prerequisite: 461b.

412-3 Inorganic Preparations. A study of several important inorganic syntheses. One lecture and 6 laboratory hours per week. Prerequisites: 235, 305b or 341c.

432-8 (4,4) Instrumental Analytical Measurements. Theory and practice of instrumental analytical measurements, including spectrophotometric, electroanalytical, and chromatographic methods. Two lecture and 6 laboratory hours per week. May be taken in either sequence. Prerequisite: 461b.

433-3 Intermediate Quantitative Analysis. A study of the analysis of complex materials, with emphasis on separations, functional group analysis, and instrumental applications. Two lecture and 3 laboratory hours per week. Prerequisites: 432a or b and 461c.

438-3 Review of Analytical Chemistry. A discussion, in depth of the principles of chemical equilibrium, analytical separations, and common chemical and physical measurements. Three lecture hours per week. Prerequisite: graduate standing and consent of instructor.

446-4 Qualitative Organic Analysis. A systematic study of the separation and identification of organic compounds. Two lecture and 6 laboratory hours per week. Prerequisite: 305b or 341c, and 461c.

447-3 Quantitative Organic Chemistry. The determination of functional groups and elements commonly found in organic compounds by selected methods of analysis; illustration of general methods of procedure in the field of quantitative organic chemistry. One lecture and 6 laboratory hours per week. Prerequisite: 305b or 341c.

451-9 (3,3,3) Biochemistry. (a) Chemistry and Function of amino acids, proteins, and carbohydrates. (b) Carbohydrate metabolism; lipid chemistry, function, and metabolism; energy relationships. (c) Amino acid metabolism; enzyme kinetics; nucleic acid function and biosynthesis. Must be taken in a,b,c sequence. Prerequisite: 235, 305b or 341c.

455-8 (4,4) Biochemistry Laboratory. Modern biochemical laboratory techniques (a) for isolation, purification, and characterization of constituents of living cells and (b) for investigations of pathways, kinetics, energetics, and regulatory mechanisms related to metabolism and enzymic activity. 1 lecture and 8 laboratory hours per week. Prerequisite: 451.

460-5 Principles of Physical Chemistry. Traditional aspects of physical chemistry without the requirement of calculus. Three lecture and 4 laboratory hours per week. Prerequisites: 235, 305b or 341c, and one year of physics or consent of instructor.

461-12 (4,4,4) Physical Chemistry. A fundamental course in physical chemistry composed of a sequence of a, b, and c. Three lecture and 3 laboratory hours per week. Prerequisites: 235, 12 hours of physics, and one year of calculus. Must be taken in a, b, c sequence, and each is a prerequisite for the next course in the sequence.

- 464-3 Introduction to Quantum Chemistry.** Intermediate between the first year of undergraduate physical chemistry and advanced physical chemistry. Gives a broad foundation in physical chemistry. Three lectures per week. Prerequisite: 461c.
- 471-3 Industrial Chemistry.** A survey of modern industrial chemistry and an introduction to chemical research processes. Three lecture hours per week. Prerequisite: 305b or 341c.
- 472-12 (4,4,4) X-Ray Crystallography.** (Same as Applied Science 401-12.) (a) Introductory crystallography. (b) X-ray diffraction techniques. (c) Crystal structure analysis. Prerequisite: 461b.
- 490-2 Chemical Literature.** A description of the various sources of chemical information and the techniques for carrying out literature searches. Two lecture hours per week. Prerequisites: 235, 305b or 341c, reading knowledge of German or consent of instructor.
- 496-1 to 12 Chemical Problems.** Investigation of individual problems under the direction of a staff member. Prerequisite: consent of instructor and department chairman.
- 504-3 Mechanisms and Synthesis in Organic Chemistry.**
- 511-9 (3,3,3) Advanced Inorganic Chemistry.**
- 517-3 Laboratory Techniques in Inorganic Chemistry.**
- 519-2 to 30 (2 to 6 per quarter) Advanced Topics in Inorganic Chemistry.**
- 531-3 Theory of Quantitative Analysis.**
- 532-3 Instrumental Methods of Analysis.**
- 539-2 to 30 (2 to 6 per quarter) Advanced Topics in Analytical Chemistry.**
- 541-3 Advanced Organic Chemistry.**
- 542-3 Advanced Organic Chemistry.**
- 543-3 Advanced Organic Chemistry.**
- 547-3 to 6 Advanced Laboratory Preparations in Organic Chemistry.**
- 549-2 to 30 (2 to 6 hours per quarter) Advanced Topics in Organic Chemistry.**
- 551-3 Nucleic Acids and Protein Biosynthesis.**
- 552-3 Carbohydrate Chemistry.**
- 553-3 Plant Biochemistry.**
- 554-3 Biochemical Mechanisms.**
- 555-3 Enzymes.**
- 559-2 to 30 (2 to 6 hours per quarter) Advanced Topics in Biochemistry.**
- 561-3 Chemical Thermodynamics.**
- 562-3 Quantum Chemistry.**
- 563-3 Chemical Dynamics.**
- 569-2 to 30 (2 to 6 hours per quarter) Topics in Advanced Physical Chemistry.**
- 575-1 to 3 Graduate Seminar.**
- 594-2 to 15 (2 to 6 hours per quarter) Special Readings in Chemistry.**
- 595-0 to 9 Advanced Seminar in Chemistry.**
- 596-3 to 20 Advanced Chemical Problems.**
- 597-3 to 40 Research and Thesis.**
- 598-3 to 48 Research-Doctoral.**
- 600-3 to 48 Dissertation-Doctoral.**

Cinema and Photography

- 260-12 (4,4,4) Fundamentals of Still Photography.** (a) Use of small-formate cameras, exterior and flash lighting, black-and-white film and print processing, and composition and design principles as applied to photography; (b) Continuation of (a) but with emphasis on finer control of photographic processes and techniques with large-format cameras; densitometry; zone systems of exposure determination; (c) Color photography. Theory and techniques, assignments in the use of negative-positive and transparency systems. Must be taken in a,b,c sequence.
- 303-4 Portrait Photography.** Posing, lighting, and finishing of portraits. Studio experience. Prerequisite: 260c.
- 309-12 (4,4,4) Commercial and Illustrative Photography.** Work in product, architectural, and illustrative photography in black-and-white and color. Prerequisite: 260c.
- 341-10 (4,3,3) Cinematography.** (a) The fundamentals of cinematography, basic to further work in any kind of cinema production. Includes study of lenses, cameras, films, lighting, exposure, continuity, animation, titles, and editing; (b) Sound motion picture production. Study of film types. Laboratory

consists of production of short sound films with commentary, music, and effects; (c) Production of a lip-synchronous sound film. Must be taken in a,b,c sequence.

360-8 to 12 (3,3,2-6) Publications Photography. (a) Work in visual news reporting with emphasis on short picture series and picture stories with captions and text. Prerequisite: 260a; (b) Production of picture essays including subject research, layout, captions, and text. Includes study of historic and current picture essays. Prerequisite: 360a; (c) Picture assignments for campus and other publications. Prerequisite: 360a.

364-3 Picture Editing. Selection, cropping, and layout of pictures for publications.

401-3 History of the Cinema. History, esthetics, and appreciation of the cinema. Screenings of films of representative type and historical significance. Not open to students who have had GSC 349.

402-3 History of Still Photography. History, esthetics, and appreciation of still photography. Not open to students who have had GSC 348.

411-1 to 10 Workshop in Still Photography. Advanced work in specialized photographic techniques and applications. Prerequisite: consent of department.

412-1 to 6 Workshop in Cinema Production. Crew work on university film productions. Prerequisite: consent of department.

428-3 Managing the Industrial Photographic Unit. A study of practices, procedures, administration, and management of typical units. Prerequisite: consent of department.

429-3 Photographic Methods in Science and Technology. Photomicroscopy, specimen photography, infrared and ultra-violet photography, high-speed and time-lapse motion pictures, slide series production. Prerequisite: 260c, 341a.

431-1 to 12 Problems in Still Photography and Cinematography. Special projects for advanced students in still photography and cinematography. Prerequisite: consent of department.

Clothing and Textiles

127-4 (2,2) Clothing Selection and Construction. (a) Clothing selection and care. Study of clothing in relation to fabric composition, fashion emphases, art principles, suitability and cost. (b) Clothing selection laboratory. Use and alteration of patterns, construction of garments using fabrics made of different fibers (emphases on fitting and on construction techniques).

131-3 Applied Design. Theory of design. Judging decorative and structural design of objects. Principles and elements of design applied to our visual environment—homes, furnishings, buildings—and the person. Supplementary laboratory experiences with emphasis on color.

145-3 Three Dimensional Arrangement. Principles of selection and arrangement of designs including flowers, foliage and other elements from nature for use in homes and other interiors.

231-3 Applied Design. The study of design of products used in interiors of homes and in clothing and textiles. Laboratory experiences in applying the principles and elements of design to two- and three-dimensional studies related to these. Prerequisite: 131, equivalent, or consent of instructor.

233-3 Pattern Designing and Clothing Construction. Principles of flat pattern design, pattern manipulation, and fitting. The making of dress patterns from master patterns. Construction of dresses using custom finishes. Field trip. Prerequisites: 127, or consent of instructor.

300-2 to 4 Display. The application of design principles in windows, cases, department displays. Laboratory problems to provide experience in planning, execution, and evaluation of display. Prerequisite: 131, equivalent, or consent of instructor.

327-3 Home Furnishings and Interiors. Principles and elements of design related to selection and arrangement of furniture and the use of fabrics, accessories and other media utilized in furnishing homes and their interiors. Prerequisite: 131, equivalent, or consent of instructor.

329-3 Fashion. A study of economic, psychological, social, and aesthetic factors in fashion which affect the individual and family. Exploration into the fashion industry and opportunities in the field of fashion.

331-3 Applied Design. Laboratory experiences in applying the principles and elements of art to textile designing. Linoleum block printing, silk screen print, contemporary embroidery, batik, tie-dye, and others. Prerequisite: 231, equivalent.

lent, or consent of instructor. Offered alternate years.

334-3 Costume Design. The development of original dress design and adaptation from period costume and other sources, using various media. Prerequisite: 127a, 131. Offered alternate years.

339-3 Clothing Economics. Factors of production, distribution, and consumption which influence economics of clothing. Offered alternate years.

360-4 Tailoring and Clothing Construction. Fundamental construction processes reviewed and basic principles of tailoring applied in the construction of a suit or coat and a dress. Prerequisite: 233.

364-3 Draping and Construction. Principles of design applied to draping of fabric on dress form. Emphasis on interpretation of design in relation to different fabrics and figures. Construction of one draped garment. Prerequisite: 233. Offered alternate years.

371-6 Field Experience. Opportunity for supervised learning experiences in the chosen area.

380-4 Furniture and Interiors. A study of furniture in relation to interiors from antiquity through the 18th century. Field trip.

381-4 The Modern Movement in Interior Design. A study of furniture in relation to interiors from the 18th century to the present. Field trip.

382-4 The Decorative Arts. A study of ceramics, textiles, glass, paper, plastics, lighting and lighting fixtures, metals and hardware, selecting and hanging pictures, window treatments, floor coverings, wall treatments, and backgrounds considered in relation to problems in interior decoration. Field trip.

390-5 Interior Design Fundamentals. Analysis and practices of interior decoration with emphasis on present-day problems and solutions. Field trip. Prerequisite: 131, 231 or consent of instructor.

391-15 (5,5,5) Advanced Interior Design. The major problems and trends in interior design. (a) residential interiors, (b) commercial interiors for restaurants, hotels, and motels, (c) commercial interiors for transportation systems, industrial and governmental buildings. Lecture and laboratory. Field trips. Must be taken in a,b,c sequence. Prerequisite: 390 or consent of instructor.

394-4 Professional Practice. Practical organization and methods of conducting an interior decorating business; production, management, customer relationships, and professional ethics. Prerequisite: 390 or consent of instructor.

395-2 to 8 Special Problems. Specific problems in clothing, textiles, applied design, housing, home furnishings, or interiors. Prerequisite: consent of instructor.

423-4 Advanced Family Housing. (See Home and Family 423.)

431-4 Advanced Applied Design. Research problems in experimentation with materials in textile design, linoleum block printing, stencilling, contemporary embroidery, silk-screen printing, etc. Prerequisite: 231 or consent of instructor.

432-2 to 8 Workshop. Designed to aid leaders in the field with current problems. Discussion, reports, lectures, and other methods of analyzing and working on solutions to problems. Emphasis for the workshop to be stated in the announcement of the course. Prerequisite: consent of chairman.

433-4 Advanced Pattern Designing. Application of flat pattern design principles to the making of patterns for garments of various designs and fabrics. Fitting and pattern alteration related to various figure types. Production cost analysis. Prerequisite: 233 or consent of instructor.

434-4 History of Clothing. The history of costume from prehistoric times to the present. Social, economic, and aesthetic developments that influenced its design.

440-4 Clothing the Family. Needs and wants of individuals at various developmental stages, in family and societal settings with respect to apparel consumption; functional and fashion-motivated choice of clothing; family budgets.

470-3 Interior Design Seminar. A study and appraisal of noted interiors and architecture as interpreted in selected buildings and by selected designers. Field trips. Prerequisite: consent of instructor.

473-4 Advanced Tailoring. The student will tailor one garment for herself. Timesaving methods, high-quality construction details, and professional finishes stressed. Prerequisite: 360 or equivalent. Offered on demand.

474-4 Advanced Textiles. The physical and chemical analysis of textiles. Problems dealing with economic and industrial developments, standards, labeling, and legislation. Current literature of developments within the field. Prerequisites: 322, Chemistry 110 and 240 or consent of instructor.

481-2 to 6 Readings. Supervised readings for qualified students. Prerequisite: consent of instructor and chairman.

- 500-4 Research Methods.
- 570-4 Clothing and Textiles Seminar.
- 572-2 to 8 Special Problems.
- 582-4 Foundations of Fashion.
- 583-3 (1,1,1) College Teaching of Clothing, Textiles, and Interiors.
- 599-5 to 9 Thesis.

Design

- 100-5 to 15 Design Fundamentals. Three-quarter sequence. Comprehensive workshop and lecture course in design fundamentals. Exploration of two- and three-dimensional design principles using various media and materials.
- 200-2 to 6 Materials and Basic Techniques. Three-quarter sequence. Laboratory exploration of two- and three-dimensional materials utilized in design process. No more than 2 hours per quarter. Prerequisite: 100.
- 215-4 to 12 Basic Product-Shelter Design. Three-quarter sequence. Development of an analytical approach to the solution of product and shelter problems, using lecture, text, and laboratory methods. Prerequisite: 100.
- 275-4 to 12 Basic Visual Design. Three-quarter sequence. Development of an analytical approach to the solution of visual problems, using lecture, text, and laboratory methods. Prerequisite: 100.
- 300-2 to 6 Materials and Basic Techniques. Three-quarter sequence. A continuation of 200. Prerequisite: 200.
- 345-4 to 12 Design Studio. Special projects in two, and three-dimensional experimental structures.
- 366-5 to 15 Product-Shelter Design. Three-quarter sequence. Development of three-dimensional design projects of community scope. Prerequisites: 200, 215, 275.
- 375-5 to 15 Visual Design. Development of design projects exploiting various communications media. Prerequisites: 200, 215, 275.
- 390-2 Principles of Design. Critical survey of the theory and practice of contemporary design.
- 400-0 to 2 Materials and Basic Techniques.
- 465f-5 to 15—Research in Product-Shelter Design.
- 465g-5 to 15 Research in Visual Design.
- 490f-2 to 12 Studio in Product-Shelter Design.
- 490g-2 to 12 Studio in Visual Design.
- 520-4 to 10 Educational Tool Systems.
- 530-4 to 12 Studies in the Industrial Process.
- 535-4 to 12 Research in Product Design.
- 540-4 to 12 Studies in Communications Design.
- 545-4 to 12 Research in Communications Design.
- 550-2 to 16 Field Study in Design.
- 560-4 to 12 Environmental Control.
- 570-4 to 12 Design Science Exploration.
- 575-4 World Ecological Studies.
- 576-4 to 8 Structural Evolution.
- 599-3 to 9 Thesis.

Economics

- 214-4 Economics (Macro). Analysis of the methodology of economics; the determination of the level of national income, employment, and output; money and banking; and economic fluctuations, including government monetary and fiscal policy to control those fluctuations.
- 215-4 Economics (Micro). Analysis of the operation of an economy in the determination of product prices, wage rates, levels of output by the firm, and the distribution of income, including the role of government therein. Prerequisite: 214.
- 301-1 to 6 Economic Readings. Readings in books and periodicals in a defined field, under direction of one or more staff members. Periodic written and oral reports. Prerequisite: consent of chairman.
- 303-4 Introduction to Economics—MBA. Survey of economic principles including national income, money and banking, fiscal policy, economic growth, prices, theory of the firm, labor, rent, interest, and profits. MBA students only.

- 304-4 Introduction to Statistics—MBA.** A survey of statistics. Specifically, hypotheses testing and confidence interval determination. Three hours lecture; 2 hours laboratory. Restricted to MBA students.
- 308-4 Economics and Business Statistics I.** Three hours lecture; 2 hours laboratory. Prerequisite: GSD 110.
- 310-4 Labor Problems.** Prerequisites: 215.
- GSB 311-3 Economic Development of the United States.** Prerequisite: GSB 101c or 211c.
- GSB 312-3 Comparative Economic Systems.** Prerequisite: GSB 211a.
- GSB 313-3 Economics of War and Peace.**
- 315-4 Money and Banking I.** Prerequisite: 215 or consent of instructor.
- 330-4 Public Finance.** Government spending, taxing, budgeting, and debt in relation to resource allocation, income distribution, and economic stability. Prerequisite: 211a, 215, or consent of instructor.
- 408-4 Economic and Business Statistics II.** Techniques for making decisions when the economic conditions are not known with certainty. Three hours lecture; 2 hours laboratory. Prerequisite: 307 or GSD 110, or GSD 108c, or GSD 114c, or consent of instructor.
- 411-4 Collective Bargaining and Dispute Settlement.** Nature, issues, procedures, economic effects. Prerequisite: 310 or consent of instructor.
- 416-4 Money and Banking II.** Emphasis upon the Federal Reserve System and other banking systems. Prerequisite: 315 or consent of instructor.
- 418-4 Economic History of Europe.** A survey of the economic growth of Europe with emphasis upon the development of European agriculture, industry, finance, and international trade since 1750. Prerequisites: 215, or GSB 211a, or consent of instructor.
- 419-4 Latin American Economic Development.** A survey of the resource base of Latin American economic development with special reference to the problems of transition from an export-import to an integrated industrial economy; monetary policies; problems of economic planning. Prerequisites: 215, or GSB 211a, or consent of instructor.
- 420-4 Recent Economic History of the United States.** Review and analysis of the chief characteristics, trends, and continuing problems of the economy of the United States in the 20th century. Prerequisites: 215.
- 422-4 Introduction to Economic Development.** An analysis of the preconditions, processes, and problems involved in economic development. Both the theory and policy relevant to development, with special emphasis upon the developing or emerging economics, are stressed. Prerequisites: 215.
- 429-4 International Economics.** Intensive treatment of the principles of international economics with special emphasis on the classical and modern theories of international trade. Income effects. Balance of payments adjustments. Prerequisites: 215, or consent of instructor.
- 430-4 Regional Economy.** Natural economic regions, governmental action (as in the T.V.A.), local applications. Prerequisite: 215.
- 431-3 Public Finance II.** State and local. Prerequisite: 330 or consent of the instructor.
- 433-4 Inflation, Growth, and Stability.** National income theory with emphasis on (a) the influence of government budgetary programs on the level of national income, employment, growth, and the price level, and (b) the institutional difficulties of formulating and executing a Federal budget program. Prerequisite: 215 or consent of instructor.
- 436-3 Government and Labor.** (Same as Government 436.) A study of labor relations and legislation considering both constitutional and economic aspects. Prerequisite: 215, or consent of instructor.
- 440-4 Intermediate Micro Theory.** A more intensive treatment of price theory. Prerequisites: 215, or consent of instructor.
- 441-4 Intermediate Macro Theory.** Basic analytical concepts of the modern theory of aggregative income determination. Prerequisites: 214 or consent of instructor.
- 450-6 (3,3) History of Economic Thought.** The development of economic thought; (a) ancients to 1850; (b) 1850 to present. Must be taken in a,b, sequence. Prerequisites: 215, or consent of instructor.
- 460-4 Russian Economy.** Development of Russian trade, agriculture, industry, government, finance, and standards of living in successive periods in relation to the historical, geographic, economic, and ideological background. Prerequisite: 215, or GSB 211a, or consent of instructor.

- 461-8 (4,4) Comparative Economic Development in Asia.** A comparison of the economies of Japan, India, and China within the framework of emerging economic theory of developing economies (a) Japan from Tokugawa period to the present (b) contemporary China and India. Prerequisite: 215, or GSB 211, or consent of the instructor.
- 462-4 Economic Development of the Middle East.** Economic structure of the countries constituting the Middle East; economic, political, social, and cultural forces influencing economic development. Prerequisite: 215.
- 465-4 Mathematical Economics I.** A systematic survey of mathematical economic theory. Conditions of static equilibrium (including stability conditions), optimizing behavior under constraints, and dynamic economic models. Prerequisite: 440 or consent of instructor.
- 467-4 Econometrics I.** Introduction to resource allocation under uncertainty. Probabilistic economic models, theory of games and economic choices, and stochastic economic processes. Prerequisite: consent of instructor.
- 471-4 Land Resource Economics.** (Same as Forestry 471 and Agricultural Industries 471.) The use of land as an economic variable in production of goods and services; land market; group versus individual conflicts; elementary land resources planning techniques. Prerequisite: 440, or 441, or Agricultural Industries 350, or Forestry 470.
- 472-4 Dynamic Economics: Fluctuations and Growth.** A study of the causal factors which produce fluctuations in economic activity and/or economic growth. An identification of the factors which affect the length of the cycle, its amplitude, and the stability of equilibrium. An examination of the theories and issues of economic growth. Prerequisite: 441 or consent of instructor.
- 481-4 Comparative Economic Systems.** Capitalism, socialism, fascism, and other forms of the economy. Prerequisite: 215, or consent of instructor.
- 490-4 Workshop in Economic Education.** (Same as Elementary or Secondary Education 490.) Designed to assist elementary and secondary school teachers in promoting economic understanding in the minds of their students through the translation of economic principles and problems into classroom teaching materials.
- 500-4 to 8 Economics Seminar.**
- 501-1 to 5 Economics Readings.**
- 502-1 to 6 Readings in Resource Economics.**
- 512-4 Labor Economics.**
- 517-4 Monetary Theory and Policy.**
- 520-8 (4,4) Economic Development Theory and Policy.**
- 526-4 Managerial Economics.**
- 530-4 Foreign Trade and Finance.**
- 531-4 Seminar in International Economics.**
- 533-4 Public Finance Theory and Practice.**
- 541-4 National Income Theory.**
- 542-4 Price Theory.**
- 543-4 Seminar in Economic Policy.**
- 545-4 Oligopoly and Related Market Structures.**
- 552-4 Seminar in Economic Thought.**
- 555-4 Seminar in Economic History.**
- 562-4 Seminar in Economic Systems.**
- 566-4 Mathematical Economics II.**
- 567-4 Econometrics II.**
- 575-4 Economic Regulation.**
- 581-4 Economics of Welfare.**
- 582-4 Economic Behavior.**
- 583-4 Methodological Foundations of Economics.**
- 599-1 to 9 Thesis.**
- 600-1 to 48 Doctoral Dissertation.**

Educational Administration and Foundations

GSB 331-3 The American Educational Systems.

355-4 Philosophy of Education. (Same as Philosophy 355.) The philosophical principles of education and the educational theories and agencies involved in the work of the schools.

431-4 History of Education in the United States. An historical study of the

problems of American Education which have relevance to contemporary education.

432-4 Education and Social Forces. Analysis and classification of propaganda. Designed to show how public opinion is formed by a use of current materials from the different channels of communications. Differences between propaganda and indoctrination.

500-4 Research Methods.

501-12 (4,4,4) Seminar in Educational Administration.

502-4 Seminar in Comparative Education.

502S-4 Seminar in Comparative Education: Soviet Russia.

503-4 Seminar in Philosophy of Education.

504-4 Seminar in History of European Education.

506-4 Seminar: Curriculum in Relation to American Culture.

507-12 (4,4,4) The Twentieth Century and Education.

508-8 (4,4) Interdisciplinary Seminar in Education Administration.

511-12 (4,4,4) Internship Practicum.

512-3 Workshop in Adult Education.

520-8 (4,4) Legal Basis of American Education.

524-12 (4,4,4) School Administration.

527-2 to 4 Current Issues in School Administration.

533-4 School Buildings.

534a-4 School Finance.

534b-4 School Business Administration.

534c-2 to 4 Educational Application of Electronic Data Processing.

535-4 Research in Problems of School Administration.

536a-3 Administrator's Workshop.

539-4 Community Development Through the School.

554-4 Contrasting Philosophies of Education.

556-8 (4,4) School Supervision.

560-4 Curriculum.

563-4 School Public Relations.

564-4 High School Principalship.

575-1 to 4 Individual Research. (Selected areas with 1 to 4 hours in each.)

576-1 to 4 Readings in Administration and Supervision. (Selected areas with 1 to 4 hours in each.)

589-2 to 12 General Graduate Seminar.

591-2 Seminar—Social and Philosophical Foundations.

592-4 Doctoral Seminar in Cultural Foundations of Education.

596-5 to 9 Independent Investigation.

597-1 to 3, 598-1 to 3, 599-1 to 3 Thesis.

600-1 to 48 Dissertation.

Elementary Education

000-0 Reading and Study Techniques. A service course to aid students in improving reading and study skills. Time schedules, general principles of effective study, improving reading, making notes, etc.

100-3 Introduction to Elementary Education. A thorough investigation of the factors which are involved in teaching in the elementary school.

101-2 Developing Reading and Learning Skills. (Same as Secondary Education 101.) Designed to increase reading and study efficiency. Areas covered include speed, comprehension, vocabulary, study skills, (concentration, note-taking, test-taking, time-scheduling, etc.). Open to all students.

203-3 Understanding the Elementary School Child. Concepts needed to understand the child in the elementary school situation. Two hours lecture and two hours observation. Prerequisite: GSB 201c.

309-3 Kindergarten-Primary Social Studies Methods. The objectives and methods of teaching social studies at the kindergarten-primary level, culminating in the planning of a unit of work. Prerequisite: 316.

314-4 Elementary School Methods. The fundamental principles of education, the interpretation of current educational theory and practice, the processes of teaching and learning involved in elementary education. Prerequisite: Guidance 305.

316-4 Kindergarten-Primary Methods and Curriculum. Philosophy and prin-

ciples underlying the teaching of four-to-eight-year-olds. Emphasis upon organization, equipment, materials and methods for promoting growth of young children. Prerequisite: Guidance 305.

337-4 Reading in the Elementary Schools. The principles of reading, factors that condition reading, together with grade placement of aims and materials; diagnostic and remedial treatment. Prerequisite: 314.

350-4 to 16 Kindergarten-Primary Student Teaching.

351-4 to 16 Elementary Student Teaching.

375-2 to 3 Readings in Elementary Education.

401-2 to 4 Problems in Public School Reading. Requirements: attendance at all sessions of a reading conference; preparation of a paper showing practical applications of theory to the student's own teaching situation.

410-4 Improvement of Instruction in Arithmetic in Kindergarten-Primary Grades. Recent findings and current practices in building a basis for quantitative thinking in early childhood education. Special emphasis upon grade placement of content and of techniques to aid children in understanding of the number system.

411-4 Seminar in Instruction. To assist student teachers and in-service teachers in solving classroom problems. Involves clinical study and discussion of behavioral and learning situations, with special attention to the development of characteristics and needs of students.

413-4 Children's Literature. Emphasizes types of literature, analysis of literary qualities, selection and presentation of literature for children. Not for students who have had English 213. Prerequisite: Guidance 305.

415-2 to 4 Improvement of Instruction in Arithmetic in the Elementary School. Items to be taught, the grade placement of content, newer instructional practices and materials of instruction, and means of evaluating achievement. Prerequisite: consent of instructor.

430-3 Workshop in Creative Writing in the Elementary School. Techniques of encouraging creative writing in the elementary school.

431-2 to 4 Education for the Disadvantaged Child. An understanding of culturally disadvantaged children with emphasis on the nonurban poor. Discussion of necessary adjustments of school programs emphasizing early school admission, experimental background, self-concept, language development and learning style. Prerequisite: 337.

433-4 Workshop in Kindergarten-Primary Education. Meets needs of in-service teachers in such areas as curriculum adjustment, remedial teaching, child development, and early childhood education. No credit if student has had 333 or 390.

435-4 to 8 Workshop in Elementary School Foreign Language Instruction.

437-4 Problems in Reading. Practices and trends in the teaching of reading; materials of instruction in reading, particularly remedial materials; techniques and materials for prevention of reading difficulties; diagnosis and remediation of reading difficulties. Prerequisites: senior standing, 337. Not open to students having had 505.

441-4 Workshop in Elementary School Science. Acquaints teachers with new science curriculum materials and provides experience with the materials. Success in the course is not necessarily dependent upon the student's background in science. Prerequisite: 314.

442-4 Teaching Elementary School Science. Purposes of and instructional procedures used in teaching various science curriculum materials. Success in the course is not necessarily dependent upon the student's background in science. Prerequisite: 314.

443-4 Workshop in Social Studies. Material on critical areas of the world, not commonly emphasized in elementary social studies. Areas considered; significant geographical concepts, Asia, Africa, Russia, and Eastern Europe. Outstanding specialists in social science present their specialties.

445-4 Parent Involvement in Education. Materials, techniques, and resources suitable for use by teachers in helping parents and teachers to understand how they can help each other in the partnership responsibilities of the education of culturally disadvantaged children. Prerequisite: Student teaching or consent of instructor.

465-4 Seminar in Psychology of Elementary School Subjects. Psychological principles of learning applied to the mastery of materials used in elementary school subjects. Prerequisites: 314, Guidance 305.

- 490-2 to 3 **Workshop in Economic Education in Elementary Schools.** (Same as Economics 490.) A study of newer programs stressing economic understandings of the social studies in the elementary school.
- 503-9 **NDEA Summer Institute in Reading.**
- 505-4 **Reading in Elementary School.**
- 507-2 to 4 **Readings in Reading.**
- 509-4 to 8 **Practicum in Reading.**
- 510-4 to 8 **Seminar: Problems in Reading.**
- 514-4 **Organization and Administration of Reading Programs.**
- 515-4 **Special Problems in the Teaching of Arithmetic in the Elementary School.**
- 516-8 to 12 **Internship in Reading.**
- 517-2 to 4 **Kindergarten-Primary Practicum.**
- 518-2 **Supervision of Student Teachers.**
- 519-2 to 4 **Readings in Research in Elementary Mathematics.**
- 520-4 **Diagnosis and Correction of Elementary Mathematics Disabilities.**
- 521-12 (4,4,4) **Diagnosis and Correction of Reading Disabilities.**
- 525-4 **Kindergarten-Primary Seminar.**
- 537-4 **Kindergarten-Primary Reading.**
- 541-4 **Problems in Elementary School Science.**
- 542-1 to 4 **Language Arts in the Elementary School.**
- 543-4 **Teaching the Social Studies in the Elementary School.**
- 557-4 **The Elementary Principalism.**
- 558-3 to 4 **Leadership in Elementary Education.**
- 559-3 **Workshop in Instructional Leadership.**
- 560-4 **Kindergarten-Primary Education.**
- 561-4 **The Elementary School Curriculum.**
- 563-4 **Organization of the Elementary School.**
- 570-4 **Seminar, Research in Elementary Education.**
- 575-2 to 4 **Individual Research.** (Selected areas with 2 to 4 hours in each.)
- 596-5 to 9 **Independent Investigation.**
- 599-3 to 9 **Thesis.**
- 600-1 to 48 **Dissertation.**

Engineering

- 100-2 **Orientation.** (See Engineering Technology 100.)
- 222-3 **Digital Computer Programming.** Programming of digital computers in a problem-oriented language (FORTRAN). Problems solved will illustrate some of the elementary methods of numerical analysis. Prepares the student to use digital computers in later courses. Includes programming of a computational problem from inception to completion: formulation and analysis, flow charting, coding, check-out, documentation. Prerequisite: Mathematics 111b.
- 259-3 to 80 **Shop and Drafting Subjects.** (See Technical and Industrial Education 259.)
- 260-9 (3,3,3) **Analytical Mechanics.** (Same as Engineering Technology 260.) (a) Principles of mechanics; force systems; statics of particles; statics of rigid bodies in two dimensions and three dimensions; equilibrium; analysis of structures; distributed forces; forces in beams and cables. Prerequisite: Mathematics 150b or concurrent enrollment. (b) Centroids and center of gravity; friction; moments of inertia; kinematics of particles; kinematics of rigid bodies; relative motion. Prerequisite: Engineering 260a. (c) Kinetics of particles; Newton's laws of motion (mass, force and acceleration); kinetics of rigid bodies; D'Alembert principle; work and energy; impulse and momentum. Prerequisite: Engineering 260b.
- 300-9 (3,3,3) **Thermodynamics.** (a) The study of fundamental energy concepts and the laws of thermodynamics, availability of energy, properties of gases, vapors and gas-vapor mixtures, flow and nonflow processes. (b) Engine cycles and applications to internal combustion engines, gas turbines, steam turbines, jet devices, air compressors and air engines. Combustion refrigeration and air conditioning. (c) Axiomatic thermodynamics, criteria for equilibrium; absolute temperature; Maxwell's relations; open systems; the phase rule; systems of one and two components; idealized systems; equations of state; systems involving chemical and electrochemical equilibrium. Must be taken in a,b,c sequence. Prerequisite: Mathematics 252a.

302-6 (3,3) Heat and Mass Transfer. (a) Dimensional analysis and its application to the theory of heat transfer. Mathematical and graphical methods of analyzing problems in conduction, convection, and radiation. Particular attention to the applications of heat transfer principles used in various processes. (b) A study of the theory related to all types of heat power equipment. The design calculations for various components of heat power machines such as steam and gas turbines, air compressors, pumps, refrigeration, and air conditioning equipment. Must be taken in a,b, sequence. Prerequisite: 300a,b.

305-6 (3,3) Architectural Engineering Design. (a) An introduction to the profession of architecture; work illustrating basic architectural forms and their organization. (b) A study of architectural planning, composition, and sketching. Must be taken in a,b sequence. Prerequisite: 260-9.

311-9 (3,3,3) Engineering Materials. (Same as Engineering Technology 311.) (a) Stress and strain in the elastic as well as the plastic states. Failure theories. Elastic and plastic torsion. Thick cylinders and rotating discs. Energy methods. Beams on elastic foundations. Introduction to plates and shells. Limit design. (b) Mechanics of continua for elastic, plastic, viscoelastic, and creeping materials, limit analysis, applications to brittle, ductile, and transitional modes of fracture, to creep, fatigue, friction and wear. Laboratory emphasizing student-planned projects. (c) Physical and chemical properties of all types of materials; influence of these properties on behavior of materials under various structural, magnetic, dielectric, heat, and other environmental conditions. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 260-9.

313-6 (3,3) Fluid Mechanics. (a) A broad introduction to the concepts and principles of fluid statics, kinematics and dynamics using the continuum as a mathematical model. Differential and integral form of the basic law of conservation of mass, Newton's law of motion in the form of Euler's, Bernoulli's and the momentum equation; the basic law of conservation of energy. Laminar and turbulent pipe flow; open channel flow. Turbomachinery. Fluid property measurement. Prerequisite: 260-9. (b) Resistance to flow around submerged bodies, basic boundary layer theory. Dimensional analysis by means of the Buckingham Pi-theorem and the method of non-dimensionalizing the governing equations, dynamic similitude. Perfect gas equations, basic theories of compressible flow in short passages and pipes; shock waves. Inviscid flow concepts including the velocity potential. Must be taken in a,b sequence.

321-3 Physical Metallurgy. The elementary physics of metals, constitutional diagrams, equilibrium and non-equilibrium conditions. The properties of metals and alloys as related to structure. Prerequisite: 311a.

331-12 (4,4,4) Circuit and Field Theory. (a) Explanation and application of circuit theory; measurement of basic electrical parameters; study of linear networks and sources of electrical energy; analysis of transients in reactive circuits. (b) Continuation of circuit theory; introduction to three-phase power systems; investigation of quadripole network theory. (c) Vector analysis of electromagnetic fields of simple geometry; study of various theorems and equations relating to electromagnetic field theory, with special emphasis on Maxwell's equations. Prerequisite: Mathematics 252b.

333-3 Electrical Energy Conversion. The principles and physical aspects of electromechanical energy conversion and the basic concepts of machine performance; analysis and performance of D.C. machines. Prerequisite: 331-12.

370-4 Theory of Stochastic Processes. Concept of a stochastic process. Renewal theory. Markov processes with application to reliability of systems, queues, and other problems of engineering interest. Related statistical problems. Prerequisite: 300a,b.

401-9 (3,3,3) Principles of Propulsion. (a) The basic principles of propulsion dynamics. (b) The thermodynamics of fluid flow and application to propulsion engines. (c) An extensive treatment of the technological problems in the design of propulsion systems. Must be taken in a,b,c sequence. Prerequisite: 300-9.

406-3 Introductory Wave Motion. Wave motion in strings and bars. Fourier methods. Wave motion in fluids. Electromagnetic waves. Prerequisite: Mathematics 252b.

412-9 (3,3,3) Engineering Practice. (a) Written communication encountered in engineering organizations; correspondence, memoranda, technical papers, specifications, and reports. Lectures, conferences, and frequent written assignments are adapted to the individual needs of each student. (b) The law of contracts with enough emphasis on legal procedure to enable students to

understand decided cases. The study of the legal material will be followed by practice in applying some of the principles. (c) Research methods.

413-6 (3,3) Intermediate Mechanics of Fluids. (a) Application of the basic laws of nature to the theory of fluids using the continuum approach. Kinematics of fluid motion using various coordinate systems. Dynamics of viscous fluid motion with some solutions to the fundamental system of equations. (b) Vorticity, stream functions and the velocity potential. Incompressible irrotational flow. The compressible flow equations and an introduction to the theory of homogeneous turbulence. Must be taken in a,b sequence. Prerequisite: 313a,b, Mathematics 305.

415-9 (3,3,3) Principles of Water Quality Control. (a) Characteristics of water quality, both natural and man-made; relationship of quality to use; unit operations of water quality control for municipal and industrial use. (b) Characteristics of waste waters; fundamental concepts of biological and chemical processes for the treatment of sewage and industrial wastes; water quality criteria in stream pollution control. (c) Application of physical, chemical and biological unit operations and unit processes to the functional design of treatment facilities for water, sewage and industrial wastes. Laboratory. Prerequisites: Chemistry 111c, consent of instructor.

416-6 (3,3) Water Quality Control. (a) Application of the principles of analytical, physical, and organic chemistry to the analysis and treatment of water, sewage, and industrial wastes. Laboratory. Prerequisite: Chemistry 111c, consent of instructor. (b) The ecology of streams, lakes, and other water resources; identification and control of microorganisms in water and wastes; basic principles of microbiology and biochemistry as related to stream pollution and water quality control. Laboratory. Prerequisite: Engineering 416a, consent of instructor.

420-9 (3,3,3) Transport Phenomena. (a) Mechanism of heat, mass and momentum transport on both molecular and continuum basis. Estimation of transport properties. Generalized equations of transport in one or three dimensional system. (b) Interphase transport in isothermal and nonisothermal systems. Unsteady state transport problems in multicomponent systems. Mechanism ratio analysis. Analogy of mass, heat and momentum transfer. (c) Macroscopic balances, diffusion operations, penetration theory, simultaneous mass and heat transfer, equilibrium operations. Prerequisite: Mathematics 252b.

422-4 Operations Research and Mathematical Model Formulation. Applications of digital computers to the mathematical modelling of physical systems with particular emphasis on the simulation and problem solving techniques of operations research. A critical study of "the scientific method" and its implications as an aid to the conduct of scientific research. Dynamic models of transportation, allocation, and replacement. Physical applications and computation techniques related to the theory of games. Introduction to "real-time" techniques. Prerequisites: 222 and Mathematics 111b or consent of instructor.

423-3 Hybrid Computation. The simultaneous use of the analog and the digital computer for the solution of engineering problems. Scaling of problems. Block diagrams and logic are stressed. Linear and nonlinear differential equations. Simulation as well as iterative analog computation are covered. Prerequisite: Engineering 222 or Mathematics 225 and Engineering 470a or concurrent enrollment.

430-2 to 8 Special Problems in Industry and Technology. Special opportunity for students to obtain assistance and guidance in the investigation and solution of selected technical problems. Prerequisite: consent of instructor.

435-9 (3,3,3) Electronics. (a) An introduction to electronics for all students of engineering. A foundation for more advanced studies in electronics. (b,c) Electron-tube theory, amplifiers, modulation, vacuum tube and transistor circuits. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 331a,b.

439-6 (3,3) Transient Analysis. A study of electrical and mechanical networks by means of the Laplace Transform. Theoretical vibration problems in the real and complex time domain, as they apply to engineering will be discussed. Prerequisites: 335a,b, Mathematics 305b or Engineering 470b.

441-3 Intermediate Mechanics of Vibrations. Equations of motion applied to systems with free and forced vibrations, damping, and multiple-degrees of freedom; Euler's equations; introduction to Lagrange's equations; and introduction to orbital mechanics. Prerequisite: 260c and Mathematics 305.

443-9 (3,3,3) Engineering Design. Projects of a research design or development nature. The student will select a problem, develop the theory for a solution, check the theory experimentally, analyze the data, and compare the results. The project can be from one to three quarters in length. Laboratory. Must be taken in a,b,c sequence. Prerequisites: 300, 311, 331 (a,b).

446-6 (3,3) Energy Conversion. (a) Modern power plant cycles, pumps, fans, and heat exchangers. (b) a detailed study of the design and operation of turbines. (c) The design of jet engines and other systems. Must be taken in a,b,c sequence. Prerequisite: 300-9.

450-4 Fundamentals of Reactive Systems. Chemical processes, stoichiometry, properties of gases, solution chemistry, modern techniques of analysis, surface chemistry. Nonideal systems, rates and mechanisms of industrial processes. Instrumentation and process control. Laboratory. Prerequisites: 300a and Chemistry 111c or consent of instructor.

459-4 Engineering Economy II. An analytic approach to economic aspects of professional engineering practice. Fundamental techniques of economy studies including replacement theory, cost control, analysis of risk and uncertainty, income taxes, and methods and formulas employed by industry. Prerequisite: GSB 361 or consent of instructor.

462-6 (3,3) Matrix Methods in Structural Analysis. (a) Introduction to matrix algebra. Matrix force method. Stiffness matrix method. Matrix displacement method. Computer analysis of trusses and frames. Moment distribution. (b) Introduction to undamped and damped vibrations. State and transfer matrices in vibration analysis. Miscellaneous applications. Prerequisites: 260-9, 311a.

463-6 (3,3) Introductory Instrumentation. Strain gages, bolometers, diffraction gratings. Electromagnetic techniques. Chemical techniques. Spectroscopy. Photoelasticity. Signal sensing and data handling. Recording systems. Transducers. Prerequisites: 413, 414, 435a, and Mathematics 252b.

502-9 (3,3,3) Advanced Heat Transfer.

503-6 (3,3) Heating and Cooling Systems.

510-9 (3,3,3) Electromagnetic Fields.

511-6 (3,3) Quantum Electronics.

512-8 (4,4) Continuum Mechanics.

513-3 Mechanics of Viscous Fluids.

514-3 Mechanics of Inviscid Fluids.

515-3 Wave Motion in Fluids.

516-8 (4,4) Water Resources Development.

517-12 (4,4,4) Analysis and Design of Engineering Systems.

518-3 Introduction to Turbulence.

519-3 Boundary Layer Theory.

520-9 (3,3,3) Reaction Engineering and Rate Processes.

522-3 Advanced Topics in Operations Research.

530-6 (3,3) Separation Processes and Equilibrium Operations.

535-6 (3,3) Network Analysis and Synthesis.

542-3 Theory of Plates.

561-6 (3,3) Advanced Vibrations.

570-2 to 6 Special Investigations.

580-1 to 9 Seminar.

599-1 to 9 Thesis.

Engineering Technology

100-2 Orientation. (Same as Engineering 100, Industrial Technology 100, and Technical and Industrial Education 100.) Introduction to the various phases of technology to enable the student to develop an understanding of the role of technology in industry and in education and to help guide his thinking in relation to occupational goals.

102-9 (3,3,3) Graphic Communication. (a) Basic principles of graphic communication including orthographic (multiview) projection; sections and conventions; charts and graphs; pictorial drawing; and conceptual design. (b) Principles of graphic communication. The graphical solution of problems involving the spatial relationships of points, lines, and planes. (c) Principles and practice of graphic communication including auxiliary views; dimensioning and tolerancing; applications in technology; and conceptual design. Six hours lecture-laboratory per week for each section. Must be taken in a,b,c sequence.

259-3 to 80 Shop and Drafting Subjects. (See Technical and Industrial Education 259.)

260-9 (3,3,3) Analytical Mechanics. (See Engineering 260).

301-6 (3,3) Refrigeration and Air Conditioning. (a) Discussion of refrigerating cycles. Refrigeration at more than one level. Operation and ratings of various types of compressors, evaporators, condensers, and automatic controls used in commercial refrigerating systems. Heat flow problems in condensers, evaporators, and cooling towers. (b) Control of temperature and humidity in buildings, or other large areas. Air handling equipment, duct systems, and air distribution within the space. Fundamental principles and techniques for cooling and dehumidification for comfort. Equipment and control systems. Must be taken in a,b sequence. Prerequisite: Engineering 300a.

303-9 (3,3,3) Electronics Technology. A study of the fundamentals of vacuum tubes and transistors, including application of these devices in electronic circuits. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 304-9.

304-9 (3,3,3) Electrical Circuits. (a) Foundations of electrical theory, solutions to D.C. steady state networks by the branch method, equivalent circuits, loop currents, and node voltages. Study of network theorems and dependent sources. Prerequisite: Mathematics 150a. (b) A. C. circuit theory by phasor transform method, complex power, three phase sources, mutual coupling, transformers. Prerequisite: 304a and Mathematics 150b. (c) Complex frequency, frequency response from pole-zero plots, Bode plots, transient analysis, introduction to Laplace transform methods. Laboratory. Prerequisite: 304b, Mathematics 225a.

308-9 (3,3,3) Machine Design. (a) Applications of the principles of mechanics to problems of design and development, mechanisms for specific functions, dynamic effects and friction in mechanisms. (b) Strength and safety considerations in design of machine parts. Fatigue and stress concentrations; power transmissions, bearings, brakes, clutches, and springs. (c) Combined stresses; helical, bevel, and worm gearing; curved beams, thick cylinder and flat plates; high-speed cams. The student puts previous studies into practice by design of a complete machine. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 260-9.

310-9 (3,3,3) Construction Mechanics. (a) A study of construction methods, the forces involved in the management of machinery and manpower. (b,c) The dynamics of estimating, scheduling and controlling procedures. Must be taken in a,b,c sequence. Prerequisite: 260-9.

311-9 (3,3,3) Engineering Materials. (See Engineering 311).

314-9 (3,3,3) Soil Mechanics. (a) Mechanics of soil masses; soils as engineering materials. Soil identification and testing. (b) Shearing resistance and consolidation of soils, deformations with an analytical review of the theoretical concepts, results of laboratory materials, including cement, foundation, and surfacing materials. Use of X-ray diffraction and Debye-Scherrer camera equipment. Influence of mineral constituents on soil behavior and design. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 311a,b.

318-9 (3,3,3) Hydraulics. (a) Fundamentals of fluid statics. Basic fluid flow concepts with applications. (b) Flow in open and closed conduits. Fundamentals of compressible fluid flow. Experimental techniques including the theory of hydraulic models and flow measuring techniques. Basic hydraulic machinery. Laboratory. (c) Hydrology. Flood routing and flood control. Fundamental principles of sediment transport and the collection and analysis of field data. Field trip. Must be taken in a,b,c sequence. Prerequisite: 260-9.

320-9 (3,3,3) Mechanical Engineering Laboratory. (a) A study of various types of measuring instruments. (b) Fuels and lubricants testing and exhaust gas analysis. (c) A study of the characteristics of internal combustion engines, steam turbines, compressors, pumps, fans, and refrigeration systems. Report writing. Laboratory. Must be taken in a,b,c sequence. Prerequisite: Engineering 300a.

322-6 (3,3) Internal Combustion Engines. (a) The design and principles of operation of internal combustion engines. The Otto, Diesel, and Brayton cycles and the fundamental thermodynamic laws involved. (b) Theories of combustion and detonation, combustion charts, fuels, and air tables. Effects of chemical equilibrium and variable specific heats. Cetane and octane numbers; carburetion and injection. Must be taken in a,b sequence. Prerequisite: Engineering 300b.

332-9 (3,3,3) Electrical Machinery. (a) Introduction to direct and alternating current machinery. Theory and operating characteristics. (b) Advanced studies on polyphase alternators, motors, machinery, and power generation. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 304-9.

336-3 Electrical Measurements. Theory and use of D.C. and A.C. instruments; analysis of sensitivity, accuracy, precision, and error. Prerequisite: 304-9.

337-9 (3,3,3) Manufacturing Processes. (See Industrial Technology 337.)

338-12 (4,4,4) Electrical Instrumentation. (a) A discussion of the basic operating principles of control instruments and their applications to industrial processes. (b) The application of commercially available instruments to research problems. Dynamic and static calibration of instruments. (c) Control elements and techniques for devices and processes, dynamics of open and closed cycles control systems. Laboratory. Must be taken in a,b,c sequence. Prerequisite: 304-9, 318a,b.

340-4 Mechanisms. The movement of bodies in space, basic mechanisms including analytical and graphical analysis. Linkages, cams, gears and their manufacture. Vibration, critical speeds, and gyroscopic applications. Laboratory. Prerequisite: 260-9.

342-3 Engineering Technology Design. An elective project on any engineering subject selected by the student with advice from the instructor. Stimulates original thought and creativity. Laboratory. Prerequisite: 304-9, 311-6, Engineering 300a.

347-3 Foundation Engineering. Subsurface investigation, theory of consolidation and settlement, strength theory and conditions of failure due to stresses imposed by engineering structures on foundation materials. Laboratory. Prerequisite: 314-9.

349-9 (3,3,3) Unit Operations. (a) Heat, mass and momentum transfer in processing industries. Empirical correlations of experimental data. Equipment design. (b) Stagewise operations, graphical solutions of mass and heat transfer problems. Applications in evaporation, drying and distillation. Process design. (c) Two phase separations, gas absorption, solvent extraction and leaching. Experimentation.

351-9 (3,3,3) Product Control. (See Industrial Technology 351.)

363-12 (4,4,4) Surveying. (a) The use and care of surveying instruments. Fundamental principles of surveying, computations, route surveying, topographic surveying data processing. (b) Field astronomy, route surveying, land surveying, state coordinate systems, and subsurface surveys. (c) Precise surveying, geodesy, altimetry analysis of errors and error propagation, conditioned and adjusted by method measurements of least squares and other methods. Laboratory. Prerequisites: 363a. Technology 101a,b and Mathematics 111b.

364-6 (3,3) Highway Engineering. (a) Highway administration, planning, economics and finance. Highway surveys, plans and computation. Traffic engineering. (b) Highway design, drainage, roadside development and subgrade structure. Instruction in all types of base courses, surfaces and paving. Highway construction and maintenance. Preferred in sequence but not required. Prerequisite: 363a.

426-9 (3,3,3) Photogrammetry. (a) Principles and practice of terrestrial and aerial photogrammetric mapping, including planning flights, control surveys, uncontrolled mosaics, radial-line control, simple stereoplotters, instruments, parallel distortions, graphical till determination, trimetrogon charting and economics. (b) An advanced study of photogrammetric principles including controlled mosaics, rectification, graphical, mechanical, and analytical space orientation. Readings and reports from current technical literature. The principles of many photogrammetric plotters are studied together with economic relation of these instruments to density of field control, office methods, and personnel. (c) A study of the soil and rock areas of the United States and the patterns present in aerial photographs. Fundamental elements of soil patterns are analyzed to permit determination of materials present and their properties. Emphasis is placed on photo interpretation for engineering and regional planning purposes. Laboratory. Prerequisite: 363a or consent of instructor.

430-2 to 8 Special Problems in Industry and Technology. Special opportunity for students to obtain assistance and guidance in the investigation and solution of selected technical problems. Prerequisite: consent of coordinator.

437-9 (3,3,3) Industrial Electronics and Communications. (a) Design of

matching networks, impedance-admittance locus diagrams, transmission line equations, transmission line charts, stub matching. Prerequisite: 303a. (b) Electromagnetic fields in rectangular and circular wave guides, microwave techniques, antennas. (c) Unified treatment of various types of transmission systems with emphasis on the role of system bandwidth and noise in limiting the transmission of information.

440-8 (4,4) Design and Analysis of Industrial Organizations and Productivity. Case studies of industrial production methods and the process of industrial decision making; determinants of manpower utilization; transfer and processing of information, determinants of productivity levels. Prerequisite: consent of instructor.

465-8 (4,4) Industrial Safety. (Same as Technical and Industrial Education 465). (a) Basic fundamental principles of industrial accident prevention; significant accident statistics and costs; appraising safety performances; industrial plant hazards and safeguards; fire control fundamentals. (b) Effective industrial safety organizations, management and supervision; safety psychology; safety training programs; industrial hygiene programs; health safeguards; occupational diseases and other industrial hazards. Prerequisite: junior standing.

507-4 Industrial Quality Control.

526-9 (3,3,3) Surveying and Photogrammetry.

527-9 (3,3,3) Transportation and Highway Engineering.

540-8 (4,4) Design of Man-Machine Systems.

570-2 to 6 Special Investigations.

580-1 to 9 Seminar.

599-1 to 9 Thesis.

English

105-6 (3,3) English Composition for Foreign Students. A course in writing and reading skills: composition, note-taking, summaries, grammar. Equivalent to GSD 101a and b; limited to foreign students selected by proficiency examination on entrance.

300-6 (3,3) Grammatical Analysis. Basic principles of traditional, structural, and generative grammars. Required of all teacher training candidates and minors; elective to others. English 300a is prerequisite for 300b.

302-12 (4,4,4) Survey of English Literature. A survey (a) to 1550, (b) 1550-1750, (c) after 1750. All three courses are required of students with a concentration in English.

309-12 (4,4,4) Survey of American Literature. A survey (a) to 1860; (b) 1860 to 1914; (c) 1914 to the present.

GSC 317-3 Recent American Literature.

GSC 318-3 British Modern Literature and Its Social Context. (Summer, abroad.)

GSC 345-9 (3,3,3) Masterpieces of World Literature.

GSC 351-6 (3,3) Masterpieces of the Novel.

GSC 365-3 Shakespeare.

390-3 Advanced Composition. Expository writing.

392-3 Professional Writing I. Introductory course for undergraduates. Prerequisite: consent of instructor.

400-4 Introduction to Structural Linguistics. An introduction to the methods of descriptive linguistics as applied to English: the phonemics, morphemics, and syntax of English. Recommended for those preparing to teach English.

402-4 Old English Literature in Translation. A study of prose selections from Bede, Aelfric, and other writers, and of poetry from the simplest riddles and gnomic verses to the complex forms of the Caedmonian and Cynewulfian schools, the elegaic poems, and *Beowulf*. Emphasis is on the literary and cultural significance of works studied.

403-4 The History of the English Language. A survey of the development of the language from Indo-European to modern English with special emphasis on Middle and Early Modern English changes.

404-12 (4,4,4) Middle English Literature. (a) Middle English Literature excluding Chaucer, (b) Chaucer: early poems and *Troilus*, (c) Chaucer: *Canterbury Tales*.

405-8 (4,4) Descriptive Linguistics. (a) Phonetics and phonemics, an an-

alysis of language structure from phone to phoneme; (b) morphology and syntax, an analysis of language structure from morph to sentence. May be taken singly. Prerequisite: consent of instructor.

406-4 English Phonology. An analysis of spoken English, American and British. Prerequisite: 400 or equivalent.

407-8 (4,4) Articulatory Phonetics. (a) A survey of general phonetics, with concentration on articulatory methods. (b) Laboratory work in articulatory phonetics: transcription, production, perception. May be taken singly. Prerequisite: 400 or equivalent.

412-16 (4,4,4,4) English Nondramatic Literature. (a) Sixteenth Century, (b) seventeenth century, (c) the Augustan Age, 1660-1744, (d) the Age of Johnson, 1744-1798. May be taken singly.

418-4 English Literature, 1885-1914. Poetry, drama and fiction of the later Victorian and early modern period.

420-8 (4,4) American Poetry. (a) Trends in American poetry to 1900 with a critical analysis of the achievement of the more important poets, (b) the more important poets since 1900. May be taken singly.

421-16 (4,4,4,4) English Poetry. (a) Early Romantics: major emphasis on general background and on Blake, Coleridge, and Wordsworth; (b) later Romantics: emphasis on Byron, Shelley, and Keats, the minor figures; (c) Victorian poets: Tennyson, Browning, Arnold, and other poets in England, 1830-1880; (d) modern British poets. May be taken singly.

425-4 Modern Continental Poetry. Representative Poems by major 20th century poets of France, Italy, Germany, Spain, Russia, and Greece.

431-12 (4,4,4) Major American Writers. Significant writers of fiction and nonfictional prose from the Puritans to the twentieth century. (a) 1620-1800; (b) 1800-1865; (c) 1865-1915. May be taken singly.

438-4 Intellectual Backgrounds of American Literature. The relationship of basic ideas in America to American literature.

442-4 Romantic Prose. Fiction of Austen, Scott, Mary Shelley, Peacock, the Gothic novelists; prose of Lamb, Landor, Hazlitt, DeQuincey; criticism, journals and letters.

443-4 Victorian Prose. The chief writers of nonfiction prose from the late romantics to 1880.

447-4 American Humor and Satire. A consideration of the writers and forms of nineteenth and twentieth century humor.

454-12 (4,4,4) English Fiction. (a) Eighteenth century: Defoe through Jane Austen, (b) Victorian novel: 1830-1880; (c) twentieth century. May be taken singly.

456-4 Modern Continental Fiction. Selected major works of European authors such as Mann, Silone, Camus, Kafka, Malraux, Hesse.

458-8 (4,4) American Fiction. (a) The novel in America from its beginnings to the early twentieth century; (b) trends and techniques in the American novel and short story since 1914. May be taken singly.

460-16 (4,4,4,4) British Drama. (a) Elizabethan drama: from the beginning of the drama in late Middle Ages through its flowering in such Elizabethan playwrights as Greene, Peele, Kyd, Marlowe, Heywood, Dekker, but excluding Shakespeare; (b) Jacobean drama: the Jacobean and Caroline playwrights: Jonson, Webster, Marston, Middleton, Beaumont and Fletcher, Massinger, Ford Shirley; (c) Restoration and eighteenth century drama: after 1660, representative types of plays from Dryden to Sheridan; (d) modern British drama. May be taken singly.

464-4 Modern Continental Drama. The continental drama of Europe since 1870; representative plays of Scandinavia, Russia, Germany, France, Italy, Spain, and Portugal.

468-4 American Drama. The rise of the theater in America, with readings of plays, chiefly modern.

471-8 (4,4) Shakespeare. (a) The plays before 1600; (b) the plays of 1600 and later. Readings on the life of Shakespeare, the theater, and the acting company. May be taken singly.

473-4 Milton. A reading of a selection of the minor poems, of *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*. Also a reading of the major treatises.

485-4 Problems in the Teaching of English. Aims, methods, materials, tests, programs, and other aspects of English instruction in the high school.

486-2 to 8 Workshop in High School English.

487-2 to 8 Workshop in Junior High School English.

- 492-8 (4,4) **Professional Writing II.**
- 494-4 **Literature in Society.** An analysis of the structure and function of literature as a social institution.
- 495-8 (4,4) **Literary Criticism.** (a) History of criticism: ideas and techniques from Aristotle to the end of the nineteenth century; (b) modern criticism: recent critics and critical attitudes, and practice in writing criticism.
- 497-12 (4,4,4) **Senior Honors Seminars.** (a,b) Topic will vary yearly. (c) Honors Readings. Enrollment restricted to undergraduates. Departmental approval required.
- 499-2 to 6 **Readings in English.** For English concentrations only. Departmental approval required. No more than four hours may be taken any one quarter.
- 500-2 **Materials and Methods of Research in English.**
- 501-4 **Old English Grammar.**
- 502-4 **Beowulf.**
- 504-8 (4,4) **Advanced English Grammar.**
- 505-8 (4,4) **Contrastive and Historical Linguistics.**
- 506-4 **Old Norse.**
- 508-4 to 12 **Studies in Chaucer.**
- 509-4 to 12 **Studies in Middle English.**
- 511-4 to 12 **Studies in The Renaissance.**
- 513-4 to 12 **Studies in Seventeenth Century Literature.**
- 514-4 to 12 **Studies in Restoration and Eighteenth Century Literature.**
- 518-4 to 12 **Studies in English Literature, 1885-1914.**
- 519-4 to 12 **Studies in Contemporary British Literature.**
- 520-4 to 12 **Studies in Romantic Writers.**
- 521-4 to 12 **Studies in Victorian Poetry.**
- 524-4 to 12 **Studies in the Metaphysical Poets.**
- 532-4 to 12 **Studies in American Transcendentalism.**
- 534-4 to 12 **Studies in Early Nineteenth Century American Writers.**
- 536-4 to 12 **Studies in Later Nineteenth Century American Writers.**
- 537-4 to 12 **Studies in Twentieth Century American Writers.**
- 538-4 to 12 **Problems in American Literature.**
- 540-2 to 8 **Studies in Linguistics.**
- 543-4 to 12 **Studies in Victorian Nonfiction Prose.**
- 555-4 to 12 **Studies in The Victorian Novel.**
- 560-4 to 12 **Studies in Renaissance Drama.**
- 566-4 to 12 **Studies in Shakespeare.**
- 569-4 **Seminar in Special Problems of English as a Foreign Language.**
- 579-16 (4,4,4,4) **Studies in Modern Literature.**
- 580-4 **Traditional Themes.**
- 581-12 (4,4,4) **Problems in High School English.**
- 585-2 **Teaching College Composition.**
- 588-9 (3,3,3) **Methods of Teaching English as a Foreign Language.**
- 594-4 or 8 **Studies in Literary Form and Symbolic Action.**
- 596-4 **Stylistics.**
- 597-2 to 6 **Readings in Linguistics.**
- 598-1 to 6 (1 to 3, 1 to 3) **Review of English and American Literature.**
- 600-1 to 48 **Dissertation.**

Finance

- 301-1 to 6 **Readings in Finance.** Readings in classical and current writing on selected topics in various areas in the field of Finance.
- 305-4 **Personal Finance.** An introduction to the problems of personal financial asset management, including income and expense budgeting. Emphasis also placed on consumer credit, insurance, investments, home ownership and taxation. (Not open to students with concentrations in the School of Business.)
- 320-4 **Introduction to Business Finance.** Financial structure in industry, sources of capital, regulation of securities, of stock exchanges, and the Security and Exchange Commission; dividend and other financial policies. Interpreting corporation reports and evaluating securities through the analysis of financial statements. Prerequisites: Accounting 251c or consent of instructor, Economics 215.
- 323-4 **Investments.** Survey of the problems and procedures of investment management; types of investment risks; investment problems of the individual as well as the corporation. Prerequisite: 320 or consent of instructor.

324-4 Security Analysis. Application of investment principles to investment policy; analytical principles and techniques; analysis of fixed income corporate securities, of senior securities with speculative features, of common stocks, of government and municipal securities, and of investment company securities. Prerequisites: Finance 323.

325-4 Financial Markets. Operations of capital markets. Sources and uses of funds of financial institutions. Prerequisite: 320 or consent of instructor.

326-4 Management of Financial Institutions. Principal policies and problems which confront top management. Emphasis on liquidity loans, investments, deposits, capital funds, and consideration of financial statements, organization structure, operations, personnel, cost analysis, and public relations. Prerequisite: 320-4.

327-4 Risk Management. Aggregate effort of a business or institution to conserve earning power and assets by controlling the risk of accidental loss. Includes the identification and evaluation of both risk exposures and means of dealing with these exposures. Prerequisite: junior standing.

371-4 Business Law I. Introduction to the history and philosophy of law, contract law, jurisdiction and court procedure, conflicts of law and tort law.

372-4 Business Law II. Real property law, personal property law, partnership law, agency and corporation law. Prerequisite: 371.

373-4 Business Law III. Negotiable instruments, sales, suretyship and uniform commercial code. Prerequisite: 371.

421-4 Management of Business Finance. The principal problems of managing the financial operations of an enterprise. Emphasis upon analysis and solutions of problems pertaining to policy decisions. Prerequisite: 320.

422-4 Advanced Financial Management. The development of ability to use sophisticated analytical tools by the discussion of case situations dealing primarily with capitalization, return on investment, and cost of capital. Prerequisite: 421.

430-4 Business Finance. An introductory course combining both a description of the structure of business financing and an analysis of functional finance from a managerial viewpoint. Restricted to MBA students.

473-4 Business in its Legal Environment. Social and economic assessment of environmental factors influencing business policies and strategies. Emphasis is placed on legislation affecting competition and allocation of the firm's products and resources. Prerequisite: senior standing.

475-4 Budgeting and Systems. Aids in coordinating and directing business operation.

Food and Nutrition

100-3 Fundamentals of Nutrition. Emphasis on basic principles of food and nutrition in relation to personal health.

106-3 Fundamentals of Foods. An introduction to the basic principles and techniques of food preparations. Not open to students specializing in Food and Nutrition or Home Economics Education.

247-6 (2,2,2) The School Lunch Program. (a) Food purchasing; (b) quantity food production, and (c) nutrition practices in the school lunchroom.

256-5 Science of Food. Application of scientific principles to food preparation. Prerequisites: 100, GSA 101c or equivalent.

320-3 Nutrition. Principles of nutrition in relation to intermediary metabolism and the role of vitamins and minerals. Prerequisites: 100, Chemistry 110 and 240.

321-3 Food and Nutrition Demonstration. Emphasis on principles of food and nutrition including food standards and demonstration techniques. Field trip. Prerequisite: 256.

335-4 Meal Management. The selection, purchase, preparation and service of food with emphasis on time and money management. Prerequisite: 256.

356-4 Experimental Foods. Experimental approach to the study of factors influencing the behavior of foods. Individual problems. Prerequisite: 256.

360-8 (4,4) Quantity Food Production. (a) Use of power equipment, standardized formulas, and techniques of quantity preparation and service of food to large groups; (b) Practical experiences in area food service units. Prerequisite: 256.

361-3 Food Service Organization and Management. Policies, budgets, supervision, and personnel in feeding large groups. Prerequisite: 256.

- 362-3 Institution Equipment and Layout.** Selection and arrangement of various types of institutional food service equipment, including materials, construction, operation, cost, use and care. Field trip. Prerequisite: 256.
- 363-3 Food Purchasing for Institutions.** Principles and methods of purchasing food in quantity. Field trip. Prerequisite: 256.
- 371-6 Field Experience.** Opportunity for supervised learning experiences in the student's area of concentration. Consent of instructor and chairman.
- 390-3 Diet Therapy.** Study of physiological and biochemical changes in certain diseases with emphasis on those involving nutritional therapy. Prerequisite: 320.
- 420-3 Recent Developments in Nutrition.** Critical study of current scientific literature in nutrition. Prerequisite: 320 or equivalent.
- 421-3 Recent Trends in Food.** Critical study of current scientific literature in food. Prerequisite: 320 or equivalent.
- 481-2 to 4 Readings.** Supervised readings for qualified students. Prerequisites: 320 or consent of chairman and instructor.
- 490-3 Nutrition and Growth.** Lectures, readings, and discussions on nutrition in relation to human growth. Prerequisites: 320 or equivalent.
- 500-4 Research Methods.**
- 515-1 to 6 Seminar.**
- 520-3 Advanced Nutrition.**
- 556-4 Advanced Experimental Foods.**
- 572-2 to 8 Special Problems.**
- 599-5 to 9 Thesis.**

Foreign Languages

The student who has completed one year of foreign language in high school will usually begin with the first quarter of the first year course which is in General Studies. The student who has completed two years of high-school foreign language will usually begin with the intermediate course.

Students taking work in any first year college foreign language series should note that the first two quarters will not be counted as electives toward graduation unless the third quarter is also completed.

General Foreign Language Courses

353-4 Methods in Teaching Modern Foreign Languages. Survey of general principles of second-language teaching, based upon insights of modern linguistics and learning-psychology. Followed by intensive practical work in classroom and language laboratory with teachers experienced in the student's specific language field. Required of prospective teachers of modern foreign languages in secondary schools. Prerequisite: French, German, Spanish, or Russian 201c.

Chinese

120-3 (1,1,1) Chinese Conversation. Conversation and oral drill taken with GSD 120 by students who wish additional oral training: elected only by students enrolled in GSD 120.

201-15 (5,5,5) Intermediate Chinese. Designed to give the students a review of the Chinese language and its expansion, a reading ability of modern prose, and practice in conversation and composition. Must be taken in a,b,c sequence. Prerequisite: one year of college Chinese (GSD 120c) or equivalent.

315-2 to 6 Readings in Chinese. Readings in the contemporary Chinese such as the adaptations of the writings of Tsau Yu, Lau she, Hu shih, and Lu Synn. Prerequisite: 201c.

French

123-3 (1,1,1) French Conversation. Conversation and oral drill taken with GSD 123 by students who wish additional oral training: elected only by students enrolled in GSD 123. Parts may be taken singly.

161-0 (0,0) French for Graduate Students. Designed for graduate students desiring a reading-knowledge of French. (a) Intensive study of grammar. (b) Extensive reading and vocabulary study. Prerequisite: consent of instructor.

201-9 (3,3,3) Intermediate French. Composition, oral practice, rapid reading of modern authors with special attention to the role of French culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 123 or two years of high school French, or equivalent.

220-6 (2,2,2) Intermediate French Conversation. Development of oral skill on the intermediate level. Offered for 3 quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.

G5C 305-3 Contemporary French Drama.

350-4 Advanced Composition and Conversation. Intensive grammatical analysis, translation, and composition. Prerequisite: 201c.

352-3 French Phonetics. French phonemics and phonetics, involving production of French sounds and English interference, the written representation of French sounds and the teaching thereof. Laboratory and dictation practice. Prerequisite: 201c.

354-4 Introduction to Literary Analysis. Different methods of literary analysis and their application to selected works of French literature. Prerequisite: 350.

379-9 (3,3,3) Survey of French Literature. Reading and analysis of selected works of French literature from the beginning to the present time. Presented in French. Should be taken in a,b,c sequence, although not obligatory. Prerequisite: 354 or consent of instructor.

401-9 (3,3,3) French Literature of the 17th Century. (a) Tragedy; (b) Comedy; (c) Nondramatic literature.

403-9 (3,3,3) French Literature of the 18th Century. (a) Theater; (b) Novel; (c) Philosophic and Didactic Literature.

408-4 French Civilization. Society, culture, social institutions, and the arts of contemporary France. Lectures, slides, discussion. Prerequisite: 350 or consent of instructor.

461-4 French Stylistics. Writing style in French and its application to the development of skill in written expression. Advanced work in the principles of French grammar and composition. Prerequisite: 350 or consent of instructor.

498-3 Honors Seminar. Study of an author or a special topic. Restricted to undergraduates. Prerequisite: consent of department.

499-4 Honors Essay. Individual exploration of some question, author, or theme of significance within the field of French literature or language. Restricted to undergraduates. Prerequisite: 498 and consent of department.

501-2 to 6 Seminar on a Selected French Author.

502-3 French Literature from La Chanson de Roland to Rabelais.

509-2 to 6 Studies in 19th Century French Literature.

515-6 (3,3) Old French.

520-4 Graduate Composition and Diction.

543-2 to 6 Research Problems.

599-2 to 9 Thesis.

German

126-3 (1,1,1) German Conversation. Conversation and oral drill taken with GSD 126 by students who wish additional oral training: elected only by students enrolled in GSD 126. May be taken singly.

161-0 (0,0) German for Graduate Students. Designed for graduate students desiring a reading-knowledge of German. (a) Intensive study of grammar. (b) Extensive reading and vocabulary study. Prerequisite: consent of instructor.

201-9 (3,3,3) Intermediate German. Composition, oral practice, rapid reading of modern authors with special attention to the role of German culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 126 or two years of high school German, or equivalent.

220-6 (2,2,2) Intermediate German Conversation. Development of oral skill on the intermediate level. Offered for 3 quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.

251-4 Scientific German. Study of vocabulary and sentence construction as commonly found in Germanic scientific writings. May be counted as the equivalent of German 201c. Prerequisite: one year college German or its equivalent.

301-8 (4,4) Survey of German Literature to 1800. Historical development of German literature. Should be taken in a,b sequence.

- 303-4 German "Novelle" in the Nineteenth Century.** A study of representative works from 1800 to 1900, with emphasis on the literary movements of that time.
- 304-12 (4,4,4) Advanced Composition and Conversation.** Required for prospective teachers of German.
- 310-8 (4,4) Introduction to German Literature.** Reading, analysis, and discussion of representative works from various periods of German literature. Prerequisite: 201c.
- 312-4 German Drama in the Nineteenth Century.** Kleist, Grillparzer, Hebbel. Reading and discussion of representative works.
- 315-4 From Rationalism to Realism.** Study of German literary works representing 18th Century Rationalism, "Sturm und Drang" and Romanticism which leads over to the literature of Realism; lectures and reports.
- 401-4 (2,2) Goethe's Faust.** (a) The Faust legend and early Faust books and plays; the genesis of Goethe's Faust: reading of Part I. (b) reading of Part II; study of symbolism such as blending of paganism with Christianity, ancient Greek culture with Germanic culture. Must be taken in a,b sequence.
- 402-3 Advanced German Syntax.** Descriptive and contrastive study of German syntax, with particular attention to the needs of prospective teachers.
- 403-3 German Ballads and Lyrics.** A selective study of the foremost examples of German balladry and lyric poetry, ranging from the poetry of Klopstock and Burger to that of Hesse, Benn, etc. Lectures, recitations.
- 404-4 Weimar and Its Aftermath.** German writings from the inception of the Weimar Republic to the end of World War II, with special reference to the correlation existing between literary expression and social, economic and political conditions.
- 406-3 The German Comedy.** Comic and satirical works in German Literature, with special emphasis on the "Lustspiel" since 1800; lectures, reports.
- 407-2 Great German Plays of the 20th Century.** Study and selective readings of outstanding stage successes; lectures, reports.
- 408-4 German Civilization.** Intensive study of the German speaking areas of the world, with emphasis on the anthropological and sociological aspects of their respective cultures (Austrian, German, Swiss, "Reichs-deutsch," etc.); lectures, reports.
- 411-6 (3,3) Middle High German.** (a) Grammar, and selective readings in both MHG originals and NHG translations of such epics as the Nibelungenlied and Gudrun. (b) The Courtly epic poetry of such authors as Wolfram von Eschenbach, Gottfried von Strassburg, Hartmann von Aue, the lyric poetry of Walther von der Vogelweide, and didactic prose.
- 413-6 (3,3) German Linguistics.** (a) Introduction to Comparative German Linguistics tracing relationships among German languages on the basis of phonology, morphology, and syntax; (b) History of the German language; a survey of the development of German through the Old-, Middle-, and High German periods; lectures, readings, reports.
- 497-1 to 2 Readings in 18th Century German Literature.** Departmental approval required.
- 498-1 to 2 Readings in 19th Century German Literature.** Departmental approval required.
- 499-1 to 2 Readings in 20th Century German Literature.** Departmental approval required.
- 500-2 Seminar in Contemporary Literature.**
- 501-2 Seminar on a Selected German Author.**
- 506-2 Romanticism I.**
- 507-2 Romanticism II.**
- 509-4 (2,2) Old High German.**
- 512-3 19th Century German Novel.**
- 513-3 20th Century German Novel.**
- 514-3 Seminar in Folklore.**
- 533-3 Gothic.**
- 543-2 to 6 Research Problems.**
- 544-12 NDEA Summer Institute for Teachers.**
- 599-2 to 9 Thesis.**

Greek

- 201-12 (4,4,4) Intermediate Greek.** Grammar review and composition. Selected readings. Taken in a,b,c sequence. Prerequisite: GSD 130c.

- 301-4 Greek Historians.** Reading and discussion of selections from the histories of Herodotus, Thucydides, and Xenophon.
- 302-4 Plato.** Reading and discussion of the **Republic**.
- 303-4 Aristotle.** Reading and discussion of the **Ethics**.
- 311-8 (4,4) Homer.** Reading and interpretation of selections from the **Iliad** and the **Odyssey**. Should be taken in a,b sequence.
- 313-4 Greek Tragedy.** Reading of at least two plays from the works of Aeschylus, Sophocles, and Euripides.
- 315-2 to 8 Readings from Greek Authors.** Flexible reading program of works not included in other courses. By special permission only. Prerequisite: 201c.
- GSC 320-3 Greek Literature in Translation.**
- GSC 330-3 Classical Mythology.**
- GSC 332-3 Classical Drama.**

Italian

- 144-3 (1,1,1) Italian Conversation.** Taken with GSD 144 by students who wish additional oral training; elected only by students enrolled in the corresponding beginning sections. Each quarter may be taken separately.
- 201-9 (3,3,3) Intermediate Italian.** Development of listening, speaking, reading, and writing skills on the intermediate level, with special attention to the role of Italian culture in world civilization. Prerequisite: GSD 144 or 2 years of high school Italian or equivalent.

Latin

- 201-12 (4,4,4) Intermediate Latin.** Composition and reading from various authors. Should be taken in a,b,c sequence. Prerequisite: GSD 133 or two years of high-school Latin.
- 301-4 Cicero's Essays and Letters.** Prerequisite: 201c or equivalent.
- 302-4 Vergil's Eclogues and Georgics.** Prerequisite: 201c or equivalent.
- 303-4 Tacitus.** Prerequisite: 201c or equivalent.
- 304-2 Private Life of the Romans.**
- 311-4 Roman Comedy.** Prerequisite: 201c or equivalent.
- 312-4 Horace's Odes and Epodes.** Prerequisite: 201c or equivalent.
- 313-4 Letters in Pliny.** Prerequisite: 201c or equivalent.
- 315-2 to 8 Readings from Latin Authors.** Flexible reading program in works not included in other courses. By special permission only.
- 326-4 Ovid's Metamorphoses.**
- GSC 331-3 Latin Literature in Translation.**
- GSC 332-3 Classical Drama.**
- 335-4 Vergil's Aeneid.**
- 342-4 Advanced Composition.** A careful study based on classic prose-writers.

Portuguese

- 135-3 (1,1,1) Elementary Portuguese Conversation.** Conversation and oral drill taken with GSD 135 by students who wish additional oral training. Elected only by students enrolled in GSD 135. Parts may be taken singly.
- 201-9 (3,3,3) Intermediate Portuguese.** Composition, oral practice, rapid reading of modern authors. Must be taken in a,b,c sequences. Prerequisite: GSD 135c or two years of high school Portuguese, or equivalent.

Russian

- 136-3 (1,1,1) Russian Conversation.** Conversation and oral drill taken with GSD 136 by students who wish additional oral training; elected only by students enrolled in GSD 136. Parts may be taken singly.
- 161-0 Russian for Graduate Students.**
- 201-9 (3,3,3) Intermediate Russian.** Composition, oral practice, rapid reading of modern authors with special attention to the role of Russian culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 136 or two years of high school Russian, or equivalent.
- 220-6 (2,2,2) Intermediate Russian Conversation.** Development of oral skill on the intermediate level. Offered for three quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.

- 308-9 (3,3,3) Survey of Russian Literature.** Historical survey of major movements, authors, and works in Russian to the present time. Should be taken in a,b,c sequence. Prerequisite: 201c.
- 320-2 Readings in Russian Literature.** Selected readings in areas not covered in regular course work.
- 330-6 (2,2,2) Advanced Composition and Conversation.** Based on the history of Russia and the cultural heritage of the Russian people. Should be taken in a,b,c sequence concurrently with 308-9.
- 401-8 (4,4) The Russian Novel in the Nineteenth Century.** Should be taken in a,b sequence.
- 412-4 Russian Realism.** Authors in the 19th century Russian literature. Special attention to stylistic devices. Lectures, readings, and individual class reports. Prerequisite: 308c.
- 413-4 Russian Drama in the Nineteenth Century.** Griboyedov, Gogol, Pushkin, and minor dramatists.
- 414-3 Russian Poetry from Zhukovsky to 1920.** A study of Russian Poetry from Sentimentalism through Symbolism.
- 415-3 Russian Phonetics.** Analysis of the sounds of Russian and their manner of production; intonation and stress; levels of speech, oral practice. Prerequisite: 308c.
- 415-4 Russian Poetry Since 1920.** Literary trends and representative works of Russian poets such as Mayakovsky, Yertushenko, Voznesensky, and others. Prerequisite: 308c.
- 425-3 Soviet Russian Literature.** Major fiction writers and literary trends since 1917. Lectures, readings and reports. Prerequisite: 308c.
- 462-4 Russian Stylistics.** Writing style in Russian and its application to the development of skill in written expression. Advanced work in the principles of Russian grammar and composition. Prerequisite: 308c.
- 500-2 Seminar in Contemporary Russian Literature.**
- 501-2 Seminar on a Selected Russian Author.**
- 503-2 Seminar on 19th Century Russian Literature.**
- 509-3 Russian Literature of the 17th Century.**
- 510-3 Russian Literature of the 18th Century.**
- 514-6 (2,2,2) History of the Russian Language.**
- 520-4 Russian Linguistic Structure.**
- 543-2 to 6 Research Problems.**
- 599-2 to 9 Thesis.**

Spanish

- 140-3 (1,1,1) Spanish Conversation.** Conversation and oral drill taken with GSD 140 by students who wish additional oral training; elected only by students enrolled in GSD 140. Parts may be taken singly.
- 161-0 (0,0) Spanish for Graduate Students.** For graduate students desiring a reading-knowledge of Spanish. (a) Intensive study of grammar. (b) Extensive reading and vocabulary-study. Prerequisite: consent of instructor.
- 201-9 (3,3,3) Intermediate Spanish.** Composition, oral practice, rapid reading of modern authors with special attention to the role of Spanish culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 140 or two years of high school Spanish, or equivalent.
- 220-6 (2,2,2) Intermediate Spanish Conversation.** Development of oral skill on the intermediate level. Offered for 3 quarters at 2 hours per quarter; may be taken for credit each time. Prerequisite: 201c or concurrent registration in any quarter of 201.
- 310-9 (3,3,3) Survey of Spanish Literature.** The literature of Spain to the present. Should be taken in a,b,c sequence. Offered alternately with 333. Prerequisite: 201c.
- 316-3 Civilization Espanola.** A study of the cultural patterns and heritage of the Spanish people from earliest times to the present. Prerequisite: 315 or consent of instructor.
- 320-6 (2,2,2) Advanced Composition and Conversation.** Required of students with a concentration in Spanish and students preparing to teach. May be taken concurrently with 310 or 333.
- 333-9 (3,3,3) Survey of Spanish American Literature.** Spanish literature in America from the conquest to modern times. Offered alternately with 310. Prerequisite: 201c.

- 350-3 Advanced Composition.** Daily themes based on Spanish models, with free composition once a week. Class discussions.
- 360-2 to 8 Travel-Study Course in Mexico.** Lectures and course work at Mexican universities, in conjunction with the Latin American Institute's Study Abroad Program. Native professors and lecturers in Mexico City and other points visited. Individual projects and reports. Prerequisite: advanced standing in Spanish.
- 475-3 to 12 General Topics in Spanish.** Selected topics in literature or linguistics of special interest for major concentrations in Spanish.
- 575-3 to 12 Advanced Topics in Spanish.**

IBERIAN

- 401-3 Spanish Novel of the 19th Century.** Study of representative novels of Fernan Caballero, Valera, Pereda, Galdos, etc.
- 402-3 Spanish Drama of the 18th and 19th Centuries.** Reading of representative plays of the chief dramatists from Moratin to the Generation of 1898.
- 403-3 Spanish Poetry.** General survey of Spanish poetry from its beginnings to 1900.
- 404-6 (3,3) Spanish Literature of the 20th Century.** (a) The Generation of 1898. (b) Contemporary Novel and Essay. Main trends of the Spanish novel and essay since 1900.
- 415-3 Spanish Phonetics.** Analysis of the sounds of Spanish and their manner of production; intonation; levels of speech; oral practice.
- 440-6 (3,3) The Golden Age: Drama.** Plays of Lope de Vega, Calderon, Tirso de Molina, Ruiz de Alarcon, and others.
- 445-4 Cervantes. Don Quijote;** other works assigned as collateral readings.
- 501-2 to 6 (2 per quarter) Seminar on a Selected Spanish Author.**
- 505-3 The Picaresque Novel.**
- 506-3 The Renaissance.**
- 515-6 (3,3) Old Spanish.**
- 520-3 Seminar in Syntax.**
- 525-3 The Spanish Ballads.**
- 543-2 to 6 Research Problems.**
- 560-2 to 4 Spanish and Latin American Bibliography.**
- 599-2 to 9 Thesis.**

AMERICAN

- 421-3 Survey of Modernism in Spanish American Poetry.** Study of its origins, characteristics and achievements.
- 422-3 Contemporary Spanish American Poetry.** Spanish American poetry since modernism.
- 423-3 to 4 The Mexican Novel of the 20th Century.** Emphasis on fiction dealing with the Revolution and related social problems.
- 424-3 to 4 Gaucho Literature.** Study of the Gaucho as a social class and of the types of literature developed to portray and symbolize his way of life, attitudes and values.
- 426-3 The Mexican Short Story.** Survey of the Mexican short story from pre-Conquest to the present.
- 427-3 Spanish American Drama.** Works of Florencio Sanchez, Rodolfo Usigli, Armando Moock, Samuel Eichelbaum, Xavier Villarrutia, and others.
- 478-4 Seminar in Latin American Thought.** (See Philosophy 478.)
- 500-2 to 6 (2 per quarter) Seminar in Latin American Literature.**
- 535-3 Mexican Essayists of the 19th Century.**
- 538-3 Seminar on Spanish American Poetry.**
- 541-3 Seminar on Spanish American Literary Criticism.**
- 543-2 to 6 Research Problems.**
- 560-4 Spanish and Latin American Bibliography.**
- 599-2 to 9 Thesis.**

Romance Philology

- 410-4 Romance Philology I.** Survey of phonology, morphology, and syntax changes in Romance languages in general; special attention to the developments in French and Spanish for students with concentration in these fields.

Forestry

104-3 Introduction to Forestry. Acquaints students with the broad field of multiple-use forestry. Special emphasis is given to forestry as a profession. Field trips. For students with a concentration in forestry or with instructor's consent. Only offered to freshmen or sophomore students.

221-2 to 4 Dendrology. Taxonomy and silvics of angiospermous and gymnospermous trees and shrubs. Field trips.

230-2 Lumber Grading. The study and practice of applying National Hardwood, Southern Pine, and West Coast Rules in grading lumber. Tally methods and grading for special products are also covered.

259-3 to 60 Technology in Agriculture. This is a designation for credit earned in technical or occupational proficiency when credit is to be established (by departmental evaluation) for work above the high school level. Prerequisite: transfer from two-year program.

301-5 Soil Science for Foresters. (Same as Plant Industries 301.) Basic concepts of soil formation, classification, characteristics, fertilization, and management as they apply to the growth of trees. Field trips. Prerequisite: one course in chemistry and a concentration in forestry.

306-3 Silvical Field Studies. The forest as a result of site and biotic factors. Influences of the forest on the site: Prerequisite: GSA 340.

320-4 Wood Technology. Structure, identification, and physical properties of wood. Prerequisite: GSA 201c.

330-2 Harvesting Forest Products. Principles of harvesting and transporting forest products. Field trips.

333-4 Forest Products Industries. Principles of management and manufacturing methods in forest products industries. Utilization studies of Illinois logging and lumber companies.

340-3 Forest Protection. The causes and effects of forest fires; physics of fire behavior, use of fire as a silvicultural tool.

350-6 (3,3) Forest and Outdoor Recreation. Recreational use of forest and adjacent lands with emphasis on parks and national forests. Administration; interpretation; trends in use and developments. Field trips.

360-4 Farm Forestry. The management of farm woodlands, measurement of logs, trees, and stands; planting and harvesting methods; improvement cuttings; uses and marketing of woodland products. Field trips. Forestry students not admitted. 104 and 360 mutually exclusive.

363-9 (5,4) Forest Mensuration. (a) Principles and methods of measuring volume of trees, stands of timber, and rough wood products. Preparation of yield tables and growth studies. Field trips. Prerequisite: GSD 109 or 115. (b) Timber cruising, log scaling, and growth studies on Southern Illinois University. Experimental Forest and cooperating forest ownerships. Spring field trips. Prerequisite: 363a.

365-10 (4,3,3) Silviculture. (a) The theory and practice of applying ecological knowledge to economic management of establishment, composition, and growth of forest stands. Field trips. Prerequisites: Botany 320, Plant Industries 301 (concurrent), GSA 340. (b) Student participation in planting, weeding, thinning, pruning and improvement cuttings. Prerequisite: 365a. (c) Applied systems of silviculture to commercially important timber species and types in the U.S. Prerequisite: 365a.

369-3 Forest Photogrammetry. Use of stereoptic plotting instruments and aerial photos to map and type forest stands.

375-4 Forest Management. Economic and technical principles involved in managing forests. Prerequisite for 365a,b.

381-1 to 2 Agricultural Seminar. (Same as Animal Industries 381, Agricultural Industries 381, and Plant Industries 381.) Discussion of problems in agriculture and forestry. Limited to senior students.

390-1 to 6 Special Studies in Forestry. Assignments involving research and individual problems in forestry. Prerequisite: advanced standing and written consent of instructor, 3.75 grade point average, and consent of chairman.

401-3 Advanced Forest Mensuration. Theory and practical problems in biometrics to obtain estimates of forest populations. Use of computers and other advanced techniques. Prerequisites: 363-9 or equivalent.

410-3 Forest Management for Wildlife. Interrelations between forest practices and game. Forest protection from mammals and birds. Emphasis is on the

treatment of the forest. Prerequisite: Zoology 463 and concentration in forestry or consent of instructor.

420-4 Advanced Wood Technology. The study of wood as an industrial and structural material; the botanical, physical, chemical, and mechanical properties are discussed. The advantages and disadvantages of wood as a raw material are analyzed. Prerequisite: 320, Mathematics 111a,b or equivalent.

440-4 Ecology of Grasses and Grasslands. (Same as Botany 440.) Structure, analysis, and dynamics and grassland communities; structure and growth of individual species. Field and laboratory work. Prerequisite: GSA 340 or consent of instructor.

450-4 Forest and Park Management. Fundamentals of management and administration of recreation forests. Development of forests and suburban parks under a forest environment. Review of current local, state, and Federal legislation applicable to forest recreation.

451a-3 Forest Park Plans. Fundamental and applied principles and elements involved in site, master, and comprehensive planning for outdoor recreation at the state, metropolitan, and federal level. Prerequisites: 350-6 or consent of instructor.

451b-4 Park Design and Development. Basic planning and design principles of space, scale, and circulation applied to park and recreation areas at the state, metropolitan, and federal levels. Basic elements in park and recreation area site planning, selection and development. Prerequisites: 350-6 or consent of instructor.

465-2 Forest Field Studies. An extended trip to study forest conditions and management practices in different forest regions of the United States. Cost shared by students. Prerequisites: 330, 363a, 365a.

466-3 Forest Watershed Management. Effects of treatment of forested watersheds on quality and quantity of water yield. Consideration of alternatives in water use and flood control. Prerequisites: Plant Industries 301, GSA 330, or consent of instructor.

470-8 (4,4) Economics of Forestry. (a) Production. Introduction to forestry economics; micro-economics of forestry production and conservation. Prerequisite: GSB 211a. (b) Marketing. Marketing in the forestry economy; introduction to aggregate planning in forestry including consumption and production goals. Prerequisite: 470a or consent of instructor.

471-4 Land Resources Economics. (Same as Agricultural Industries 471 and Economics 471.) The use of land as an economic variable in production of goods and services; land markets; group versus individual conflicts; elementary land resources planning techniques. Prerequisites: 470a or Agricultural Industries 350 or Economics 440.

490-4 to 16 Practicum. Supervised practicum experience in a professional setting. Emphasis on administration, supervision, teaching, and program leadership in community, school, park, forest, institution, and other recreation settings. Prerequisite: consent of department.

520a-1 to 6 Readings in Forestry or Forest Recreation.

520b-1 to 6 Readings in Resource Economics.

520c-1 to 6 Readings in Forest Products or Wood Science.

570-4 Principles of Research.

575-1 to 6 Research.

581-1 to 6 Advanced Forestry Seminar.

599-1 to 9 Thesis.

Freshman Honors Seminar

111-0 Seminar for Superior Freshmen.

Geography

300-4 Introduction to Geography. The nature of geography, the kinds of problems which it investigates, the methods which it uses. Preparation for systematic geography.

302-4 Physical Geography. A study of the earth's physical surface, world distribution patterns of the physical elements, their relationship to each other and their importance to man. Field trip and laboratory work. Prerequisite: 300.

304-4 Economic Geography. Study of the spatial distribution and interaction of economic activities. Introduction to locational theory. Prerequisite: 300.

306-4 Cultural Geography. An overview of the geographic viewpoint in the study of the human occupancy of the earth. Aspects of population, settlement, and political geography are treated, and a generalized survey of major world cultural areas is used to integrate course elements. Prerequisite: 300.

310-7 (4,3) Cartographic Methods. Properties of maps and air photos, their uses and sources; Map symbols, map projections and map construction. Introduction to the use of quantitative techniques as applied in geographic study. Laboratory. Prerequisite: 300.

324-4 Geographic Basis of Resource Management. Survey of major resources of United States with stress on problems of conservation and restoration. Emphasis on water, mineral, forest, grass, soil, wildlife, scenic, and recreational resources. Field trips.

GSA 330-3 Weather.

GSA 331-3 Climate.

GSB 354-3 Industrial Economics Geography.

400-3 Geographic Methods. Designed to introduce the geographic methods of integrating physical, economic, and cultural elements in the study of areas with the emphasis placed on problem situations. Cartographic and quantitative techniques will be emphasized. Prerequisites: 300, 302, 304, 306.

402-10 (4,3,3) Advanced Physical Geography I. Deals with one or more of the following: land forms, climate, soil, and water; depending on, and varying with, interests of the instructors. Thus, a student may register more than one time. Emphasis will be directed at familiarizing the student with techniques of analysis, and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 302 or consent.

403-7 (4,3) Advanced Physical Geography II. Content drawn from same broad range of topics as 402. To be alternated with 402 to enable student to specialize further in physical geography. Prerequisite: 302 or consent.

404-10 (4,3,3) Advanced Economic Geography I. Deals with one or more of the following: transportation, manufacturing, agriculture, resources, trade and urban geography; depending on, and varying with, interests of instructors. Thus, a student may register more than one time. Emphasis will be directed at familiarizing the student with techniques of analysis, and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 304 or consent.

405-7 (4,3) Advanced Economic Geography II. Content drawn from same broad range of topics as 404. To be alternated with 404 to enable student to specialize further in economic geography. Prerequisite: 304 or consent.

406-10 (4,3,3) Advanced Cultural Geography I. Deals with one or more of the following: population, settlement, ethnic characteristics, political factors; depending on, and varying with, interests of the instructors. Thus, a student may register more than one time. Emphasis will be directed at familiarizing the student with techniques of analysis and at developing concepts and principles that underlie understanding of the phenomena and their geographic significance. Prerequisite: 306, or consent.

407-7 (4,3) Advanced Cultural Geography II. Content drawn from same broad range of topics as 406. To be altered with 406 to enable student to specialize further in cultural geography. Prerequisite: 306 or consent.

410-8 (4,4) Advanced Geographic Techniques. Geographic applications of cartographic and quantitative research techniques. Prerequisite: 310 or consent.

416-8 (4,4) Advanced Cartography. Instruction and practice in the techniques of map-making and problems in map reproduction. Laboratory. Prerequisite: 310 or consent.

424-2 to 12 Regional Problems in Conservation. The distribution, use, and interrelationship of the resources of the U.S. and the conservation techniques applied to them.

440-2 to 6 Reading for Majors. Supervised readings in selected subjects. Prerequisite: advanced standing and consent of department.

443-4 Teaching of Geography. Presentation and evaluation of methods of teaching geography. Emphasis upon geographic literature, illustrative materials, and teaching devices suitable to particular age levels. Prerequisite: 300.

461-7 (4,3) Regional Geography: Anglo-America. Deals geographically with

present-day United States and Canada. (a) A general survey of the area, open to students without a concentration; (b) Investigates specific topics in depth, for students with a concentration in geography.

462-7 (4,3) Regional Geography: Europe. See 461.

463-7 (4,3) Regional Geography: Mediterranean Lands and Southwestern Asia. See 461.

464-7 (4,3) Regional Geography: Soviet World. See 461.

465-7 (4,3) Regional Geography: Africa. See 461.

466-7 (4,3) Regional Geography: Asia. See 461.

467-7 (4,3) Regional Geography: Latin America. See 461.

468-7 (4,3) Regional Geography: Oceania. See 461.

470-18 (4,4,2,4,4) Urban Planning. (Same as Government 470.) (a) Planning concepts and methods; (b) Field problems; (d) Urban planning seminar: Planning in a Free Society; (e) Planning and public administration internship. Parts c and d may be taken concurrently. Prerequisites: concentration in geography or consent.

471-7 (4,3) Regional Planning. Examination of the viewpoint, methods and techniques of regional planning. Prerequisite: Concentration in Geography or consent.

480-4 Workshop in the Teaching of Geography. Geographic approach to man in space. Skills and techniques in using maps, globes, pictures, statistics, and graphics and in reading the landscape and literature. Prerequisite: consent.

487 (2,4,4) Honors in Geography. (a) Honors tutorial (b) Honors reading (c) Honors supervised research a and b may be taken in any order but both must precede c. These three courses must be spread over the last two years of the undergraduate's career. Prerequisite: consent of the department.

490-1 to 12 (1 to 4, 1 to 4, 1 to 4) Tutorial in Geography. Individual and small group conferences with staff members to examine geographic concepts. (a,b,c) Prerequisite: Senior, concentration in geography.

500-4 Geographic Techniques I.

501-4 Geographic Techniques II.

505-8 (2,2,2,2) Pro-seminar in Geography.

511-4 Philosophy of Geography.

514-2 Teaching of College Geography.

515-4 to 6 Field Course.

520-2 to 12 Seminar in Physical Geography.

521-2 to 12 Seminar in Economic Geography.

522-2 to 12 Seminar in Regional Geography.

523-4 to 12 Seminar in Cartography.

524-2 to 8 Seminar in Cultural Geography.

527-2 to 8 Seminar in Urban and Regional Planning.

530-2 to 10 Independent Studies in Geography.

540a-2 to 36 Research in Physical Geography.

540b-2 to 36 Research in Economic Geography.

540c-2 to 36 Research in Regional Geography.

540d-2 to 36 Research in Cultural Geography.

599-2 to 9 Thesis.

600-1 to 48 Dissertation.

Geology

220-3 Physical Geology. Introduction to the history of geologic concepts; study of the principal rocks and minerals; development of natural laws pertinent to an understanding of the earth's surface and near surface features, environments, and primitive life forms; introduction to map and air photo reading. Laboratory and field trips required. Prerequisite: high school or college chemistry.

221-3 Historical Geology. Presents in chronological order the procession of physical and biotic changes through which the earth has passed. Includes the physical history and evolution of life forms as evidenced by fossil records. Laboratory and field trips required. Prerequisite: 220 or consent of instructor, elementary course in botany or zoology.

302-4 Structural Geology. A study of the forces involved in the deformation of the earth's crust, with special emphasis on the recognition, interpretation, and illustration of the resultant geologic structures. Laboratory. Prerequisite:

220, 221, Mathematics 111a,b. Recommended: Physics 111a or 211a or concurrent enrollment.

310-8 (4,4) Mineralogy I and II. (a) Non-silicate minerals. Rudiments of crystal structure, morphology, and symmetry. Crystal classes and stereographic projections. (b) Silicate minerals. Aspects of crystal chemistry. Prerequisite: 220, Chemistry 111b or concurrent enrollment.

315-4 Petrology. A study of the characteristics and classification of rocks, their origin and geologic distribution. Laboratory. Prerequisite: 310.

320-4 Economic Geology. Study of the geological aspects and origin, as well as the economic and political importance, of mineral resources.

GSA 321-3 Introduction to Paleontology.

GSA 322-3 Rocks and Minerals.

331-4 Geomorphology and Air Photo Interpretation. A study of land forms and surface conditions, relating topographic features to the underlying rocks and structure and to processes of erosion, deposition, and earth movements. Laboratories consider techniques of observation, description, and analysis including use of many types of maps, air photos, infra-red, radar, satellite and other geophysical sensing devices. Prerequisite: 220.

410-4 Stratigraphy and Sedimentation. The characteristic features of sedimentary rocks and their processes of origin; the classification of stratigraphic units, methods of correlation, and paleogeologic reconstruction. Laboratory. Prerequisite: 220, 221, 310a, 315, 425a,b or consent of instructor.

411-3 Mineralogy III. Elementary crystallography. Applications of physical principles to mineralogical problems. Prerequisite: 310a,b.

414-5 Paleobotany. (See Botany 414.)

415-3 Optical Mineralogy. The optical properties of minerals and the use of the petrographic microscope for identification of crystals by the immersion method and by thin section. Laboratory. Prerequisites: 310, Physics 208.

416-4 X-Ray Crystallography. Introduction to the study, measurement, and identification of unknown crystalline materials by X-ray diffraction techniques (especially the Debye-Scherrer methods). Upon request, students may work with unknowns from other fields of study. Prerequisites: 310, Mathematics 150.

420-8 (4,4) Geology of Petroleum. The geological occurrence of petroleum, including origin, migration, and accumulation; a survey of exploration methods and production problems and techniques. Laboratory study applies geological knowledge to the search for and production of petroleum. Laboratory. Prerequisites: 221, 302.

425-8 (4,4) Invertebrate Paleontology. (a) Principles of paleontology and a survey of important invertebrate phyla and their fossil representatives. (b) Paleoecology and continuation of 425a. Laboratory. Must be taken in a,b sequence. Prerequisite: 221 or GSA 201.

430-4 Physiographic Provinces of North America. Designed to give the student an intelligent appreciation of the evolution of land forms in the physiographic provinces of North America and to explain the surface features in a landscape. Prerequisite: 220.

435-12 (4,4,4) Hydrogeology. Introduces the geological factors in the origin, distribution, movement, and chemistry of natural water of the earth. Prerequisite: 315, Mathematics 150b and Physics 207.

436-8 (4,4) Elementary Exploration Geophysics. Lectures on theory and interpretation of geophysical exploration methods. Laboratory to involve use of instrumentation and interpretation of field data. Field trips required. Prerequisite: 220, Physics 211 or concurrent enrollment.

440-1 to 4 Independent Study. Prerequisites: 220, 221, advanced standing.

450-9 Field Geology. Field mapping including problems in stratigraphy, structure, paleontology, physiography, and economic geology. Requires a written geologic report. Consult the department for dates, cost, and equipment. Prerequisite: 302, 315.

450b-3 Advanced Field Geology.

460-4 Geological Data Processing. Two lecture and two laboratory periods each week for instruction in computer application to geological problems including the processing and programming of data and the interpretation and evaluation of results. Prerequisite: Engineering 222 or Mathematics 225.

510-11 (4,4,3) Stratigraphy.

515-12 (4,4,4) Mineral Deposits.

520-12 (4,4,4) Advanced Petrology.

528-3 to 9 Introduction to Micropaleontology.

529-8 (4,4) Advanced Invertebrate Paleontology.

540-1 to 9 Advanced Studies.

541-1 to 9 Research.

599-2 to 9 Thesis.

Government

231-5 American National Government. A survey covering the structure, functions, and principles of national government. Also meets social science and American government requirements.

232-5 State and Local Government. A survey of the structure and functions of American state and local government. Prerequisite: 231 or GSB 211b.

300-4 American Government. An advanced course to satisfy the American government requirements of the College of Education. Deals with the structure and functions of national, state, and local government. Not open to those who have had 231 or GSB 211b.

GSB 303-3 International Relations.

305-5 Development of the American Constitution. The evolution of the United States constitutional system. Recommended for prelaw students. Prerequisite: 231.

315-3 Administration of Justice. The organization and work of the American judicial system. Recommended for prelaw students. Prerequisite: 232.

321-1 to 6 Readings in Government. Prerequisite: consent of instructor.

330-2 Illinois Government. The development and functioning of government in Illinois. Prerequisite: 232.

340-3 The Legislative Process. A study of the principles, organization, and work of American legislative bodies. Prerequisite: 231.

GSB 345-3 Introduction to American Foreign Policy.

350-4 Masterpieces of Political Science—Honors. Significant works in political science, both classical and modern. A different book is read and discussed each week. Prerequisite: consent of department.

360-5 Public Administration. Principles and problems of administration on the national, state, and local level. Prerequisite: 231.

361-3 Problems in Public Administration and Policy Formulation. Intensive examination of problem areas illustrating administrative and management practices in public service and demonstrating linkages between politics and administration in our political system. Prerequisite: 360.

371-3 Problems of American Foreign Policy. An analysis of selected problems in the field of American foreign policy. Prerequisite: 231.

379-4 History of Political Parties. A study of the historical development of American political parties. Prerequisite: 232.

380-4 Political Parties. The development and work of American political parties. Prerequisite: 231 or 232.

GSB 390-3 Introduction to Comparative Government.

GSB 392-3 Introduction to Latin American Government and Politics.

398-4 Government and Law. Techniques of law, (classification, rights, and duties). Legal personality, public law and private law, criminal law, justice acts. Property, possession and procedure. Prerequisite: 231.

406-4 The American Chief Executive: President and Governor. A study of the origin and background of the presidency and the governorship, qualifications, nomination and election, succession and removal, the organization of the executive branch, and the powers and functions of the president and governor. Prerequisites: 231, 232.

410-3 Labor and Politics. A political history of the American labor movement from its early 19th century origins to the present. Attention given to the political philosophy and practice of labor unions. Prerequisite: 231.

415-9 (3,3,3) Political Behavior. (a) Critical behavioral evaluation and synthesis of empirical studies attempting to predict political choice and conflict behavior. (b) Integration of applicable behavioral theory and findings incorporating a structural-functional systems approach and general systems analysis for constructing research. (c) Introduction to the techniques of behavioral political science. Prerequisite: 231.

420-3 Pressure Groups and Politics. An analysis of interest groups and their techniques of political propaganda. Prerequisite: 231.

430-3 Government and National Security. A study of the organization of government for national security; the historical and current developments in civil-military relations; the legal status of over-seas military aid programs; inter-

national defense programs; and the problem of disarmament. Prerequisite: 231 or consent of instructor.

432-3 Government and Natural Resources. A study of the administrative and policy problems in the development of multiple purpose conservation programs by the national government. Prerequisite: 231 or consent of instructor.

434-3 Government and Agriculture. An historical and contemporary survey of the role of agriculture in politics, the major and minor farm parties and pressure groups, the elements of the current "farm problem," and the influence of agriculture in public agencies and the formation of public policy. Prerequisite: 231.

435-4 Government and Business. An historical study, with contemporary emphasis upon relations between government and economic institutions. Prerequisite: 231 or consent of instructor.

436-3 Government and Labor. (See Economics 436.)

438-4 Social Welfare Legislation. The Social Security Act and other legislation of major significance for the welfare and maintenance of the family, the handicapped, children, and other special groups. Their relationship to the legal structure of federal, state, county, township, and municipal welfare facilities and institutions with indications of economic and social consequences. Prerequisite: consent of instructor.

440-4 Public Personnel Administration. An analysis of some of the central problems encountered by the government executive in recruiting, maintaining, and developing personnel, such as political neutrality, leadership and motivation, career development, security regulations, and the role of personnel in policy planning and execution. Prerequisite: 360.

441-4 Philosophy of Politics. (See Philosophy 441).

450-12 (4,4,4) Latin American Governments. The countries covered are (a) those of the Caribbean area; (b) those of South America; (c) this section deals with the governmental relations between the United States and the Latin American nations.

451-4 International Politics of Europe. Nation-state system in Europe; foreign politics of major states; nationalism as a source of conflict; Soviet expansionism; and progress toward European security and unification.

452-4 Governments and Politics of Sub-Sahara Africa. A study of the governments and politics of the former and present British and French territories: Ghana, Nigeria, Kenya, Guinea, Congo, Senegal, etc. Prerequisite: GSB 390 or consent of instructor.

453-12 (4,4,4) The Government and Politics of the Soviet Union. An intensive study and research exercise in communist government and politics. Prerequisite: 390b or consent of instructor.

454-8 Development of German Democracy. Involves a summer's residence in Germany with classroom material supplemented by lectures by German professors and government officials. Prerequisite: consent of instructor.

455-4 Major Governments of Western and Central Europe. A comparative study of the political systems of the major countries of Western and central Europe. Prerequisite: GSB or Government 390 or consent of instructor.

456-4 Great Britain and the British Empire. A survey of the governmental institutions and practices within the British Commonwealth, with particular attention to the political systems of Australia, Canada, and South Africa. (The governments of India and Pakistan are treated in 458.) Prerequisite: GSB 390 or consent of instructor.

457-8 (4,4) Government and Politics in the Near and Middle East. Iran, Iraq, Syria, Lebanon, Egypt, Jordan, Saudi Arabia, etc. Prerequisite: GSB 390 or consent of instructor.

458-12 (4,4,4) Government and Politics of Asia. (a) Burma, Thailand, Malaya, Indochina, Indonesia, Philippines; (b) China, Japan, Korea, Formosa; (c) India, Pakistan, Ceylon. Prerequisite: GSB 390 or consent of instructor.

459-4 Politics of Developing Areas. A survey, theoretical and descriptive, of the impact upon politics of the process of development, and the role of the governmental system in the direction and control of development. Prerequisite: GSB 390 or consent of instructor.

461-4 Organizational Theory and Public Administration. Analysis of various theoretical approaches to public administration with emphasis on recent American literature in this field. Prerequisite: 360 or consent of instructor.

462-3 Intergovernmental Relations.

463-3 Government, Social, and Economic Policy. Explanation of contempo-

rary agencies of policy determination within the national government; attention to methods and devices utilized to effectuate national social and economic policy within the federal system; appraisal of historical developments, trends, and results as they affect American governmental, constitutional, and political philosophy, public administration, and the general welfare. Prerequisite: GSB 211c or consent of instructor.

464-3 Regulatory Administration. A study of the work of the major regulatory commissions of the national government. Prerequisite: 360 or consent of instructor.

466-3 State Government and Administration. Leading problems of government and administration of American states. Prerequisite: 232.

467-4 Municipal Government and Administration. Development and functioning of city government in the U.S. Prerequisite: 232.

469-3 Administration of State and Local Finance. An examination of the administrative problems connected with local and state revenues and expenditures in the U.S. Prerequisite: 232.

470 Urban Planning. (See Geography 470).

471-4 The Organization and Administration of American Foreign Policy. An advanced course dealing with the organizational and administrative aspects of American foreign policy. Prerequisite: 243 or 371.

472-4 International Organization. Development and organization of international government and administrative systems, with emphasis on the United Nations. Prerequisite: GSB 303.

475-8 (4,4) International Law. Rules and practices governing the nations in their relations in peace and war. Prerequisite: GSB 303.

478-4 International Politics. A study of the interplay of political forces in the international community. Particular emphasis will be placed on war-time diplomacy, peace treaties, the alignments and conflicts of power in the post-war period. Prerequisite: GSB 303 or consent of instructor.

480-4 The Pacific and the Far East. Political and strategic problems in this area. Prerequisite: GSB 303 or History 370.

484-8 (4,4) History of Political Theories.

487-6 (3,3) American Political Ideas. An historical study of the political ideas of leading American statesmen and publicists, and their resulting influence upon our governmental system. Prerequisite: 305 or GSB 385.

488-9 (3,3,3) Recent Political Theory. (a) The outstanding Anglo-American liberal political theorists from John Stuart Mill to the present; (b) The outstanding "scientific" political theorists from Karl Marx to the present; (c) The outstanding idealistic and nationalistic political theorists from Hegel to the present. Prerequisite: GSB 385 or 390.

495-8 (4,4) Constitutional Law. (a) Constitutional law of the United States with emphasis upon cases dealing with the framework of our federal system; (b) American liberties. Prerequisite: 231.

497-4 Administrative Law. Law as it affects public officials in carrying out the rights, duties, and necessary functions of the public office. Prerequisite: 360.

498-4 Jurisprudence. (Theories of Law.) Major schools in legal thinking. Positive law and natural law. Idea of justice and concept of natural rights. Prerequisite: 231.

499-4 Scope and Method of Government. Practical training in research and writing techniques in the field of government. Bibliographical materials, footnotes, use of law library facilities, and government documents. Required of all beginning graduate students.

500-6 (3,3) Methods of Empirical Research.

501-525 Seminars.

501-2 to 9 Seminar in Contemporary Legislation.

502-2 to 9 Seminar in Governmental Problems.

503-2 to 9 Seminar in Pressure Groups.

504-4 Judicial Process.

505-2 to 9 Seminar in Political Parties.

506-2 to 9 Seminar in Political Behavior.

508-2 to 9 Seminar in International Relations.

509-2 to 9 Seminar in International Organization.

510-2 to 9 Seminar in State Government.

511-2 to 9 Seminar in Local Government.

512-2 to 9 Seminar in Public Administration.

513-2 to 9 Seminar in Constitutional Law.

- 515-2 to 9 Seminar in Comparative Government.
- 516-2 to 9 Seminar in Municipal Administration.
- 517-2 to 9 Seminar in Problems in Political Theory.
- 520-2 to 9 Seminar in American Foreign Policy.
- 521-1 to 12 Readings.
- 525-2 to 9 Seminar in International Law.
- 530-4 to 12 Internship in Public Affairs.
- 582-4 Criminal Law and the Correctional Process.
- 584-4 Seminar in Correctional Program Management.
- 595-2 to 12 Individual Research.
- 599-1 to 9 Thesis.
- 600-1 to 48 Dissertation.

Guidance and Educational Psychology

- 305-4 Educational Psychology. Study of the learner and the learning process. Includes study of behavior, discipline, development, the school environment, application of learning theories, and methods of assessment. Prerequisite: GSB 201c.
- 412-4 Mental Hygiene. A survey of principles concerning factors and conditions in personal life that tend to facilitate or deter mental health. Mental health viewed as living creatively in an atmosphere of satisfactory interpersonal relations. Prerequisite: 305.
- 442-4 Basic Principles of Guidance. Introductory course on student personnel services. Survey of philosophy, principles, and organization of guidance services. Prerequisite: 305.
- 481-2 to 10 Seminar. Conducted by staff members and distinguished guest lecturers on pertinent topics. Prerequisite: 305 and consent of instructor and department.
- 501-2 to 12 Special Research Problems.
- 505-4 Introduction to Statistical Methods.
- 506-4 Advanced Statistical Methods.
- 507-4 Design and Analysis of Experiments.
- 511-4 Educational Implications of Learning Theories.
- 515-4 Psychological Aspects of Education.
- 521-8 Analysis of Classroom Behavior.
- 530-4 Standardized Testing: Theory, Use, and Interpretation.
- 531-4 Theory of Measurement.
- 532-8 Individual Measurement Theory.
- 537-4 Counseling Theory and Practice.
- 541-4 Occupational Information and Guidance.
- 543-4 Guidance through groups.
- 545m-4 Doctoral Seminar in Psychological Foundations of Education.
- 546-8 Personality Assessment.
- 548-10 to 24 Practicum in Secondary Guidance.
- 553-2 to 4 Organization and Administration of Guidance and Pupil Personnel Services.
- 555-2 to 12 Seminar in School Psychology.
- 562-8 (4,4) Human Development in Education.
- 567-2 to 12 Topical Seminar in Educational Psychology.
- 568-2 to 16 Topical Seminar in Counseling and Guidance.
- 580-2 to 10 Topical Seminar in Statistics and Measurement.
- 581-1 to 2 Internship in Counseling, Guidance, and Counselor Supervision.
- 590-2 Seminar in Behavioral Foundations.
- 596-2 to 12 Independent Investigation.
- 597-1 to 10 Independent Study.
- 599-3 to 9 Thesis.
- 600-1 to 48 Dissertation.

Health Education

- 300-3 Communicable Disease. A study of the communicable diseases with emphasis on control and principles of prevention, and application of these principles to the individual school and community.
- 301-4 Health Education Concepts, Advanced. A survey of health sciences

applied to healthful living. The dynamics of health and environment, behavior fitness, disease, addition, habituation and population control.

302s-4 Driver and Traffic Safety Education I. Prepares the college student for teaching driver education and training in the secondary school. Prerequisite: a valid driver's license.

305-4 Principles and Foundations of Health Education. Introduction to philosophy and history of health education as well as functions of the school health department and voluntary agency interaction in the health education program. Prerequisite for all 300 and above.

310-4 Home Nursing. Theory, practice, and demonstration concerning equipment, care of patient and sick room, maternity and child care, recognition of common symptoms of disease, administration of simple treatments.

311-4 Child Development. Physical development of the child beginning with the study of pregnancy, prenatal and maternal care continuing with overview of development from birth through puberty.

312-4 Emotional Health. Concepts of positive emotional health as related to teacher and parent in terms of influences on the child in the classroom and community.

313s-4 Introduction to Safety Education. Prepares for safety education in the public schools. Concerns safety as a social problem, development of safety skills, accident causes, teacher liability, research in the field.

323s-4 Methods and Materials in Safety Education. To acquaint student with material aids and methods, techniques in the teaching of safety education at elementary and secondary school levels.

325-3 Community Health Problems. Problems of a community health nature are treated and methods outlined to meet the problems. Areas include community health organization, problems of the environment, food, sanitation, and disease. Epidemiological process stressed.

330-4 Consumer Health. Legislation on state and federal levels affecting the health of the consumer; official agencies serving as watchdogs of consumer health; non-official agencies (AMA, CU, etc.) doing the same job; health and medical protection in the form of insurance, group practice, prepayment, etc.; health hazards of the space age; false and misleading information and advertising in health and medicine; cultists and faddist and their effect on the health of the consumer; media and publications and consumer health.

334s-4 First Aid. Red Cross First Aid Course with lectures, demonstrations, and practical applications. Red Cross Instructor's Certificate given.

350-4 Health Education Methods and Materials for Elementary Teachers. Designed to show the prospective teacher fundamental processes, techniques, and material aids involved in elementary school health teaching.

355-4 Introduction to Public Health. Philosophy, organization, administration, and functions of federal, state, and local, official and voluntary public health agencies. Periodic field trips involved.

356-5 Public Health II. An examination of specific public health problems and measures of control. Intended for health science students only.

400-4 Health Appraisal of School Children.

405-4 Sex Education in Schools. Problems of teaching sex education in schools. Designed to meet state requirements for preparation of teachers.

415s-3 to 4 Workshop in Driver Education and Traffic Safety.

442s-4 Practicum in Driver and Traffic Safety Education II. Provides prospective teachers with dual-control, simulation, and multiple-car laboratory teaching experiences. Teaching beginners, developing programmed lessons, methods and materials of instruction included. Prerequisite: 302s.

443s-4 Driver & Traffic Safety Education Program Administration III. Includes a study of program administration, supervision, and planning. Prerequisite: 442s.

445s-4 Driver Simulation. For in-service and pre-service teachers and supervisors of driver and traffic safety education. Includes methods of instruction, equipment familiarization, program development and objectives. Prerequisite: 443s or consent of the instructor.

450-4 Health Education in the Elementary School.

460-4 School Health Programs.

461-4 to 8 Workshop in Health Education.

462-4 Health Education Workshop.

463-1 to 4 Workshop in Health Education with Emphasis in Disaster Preparedness.

464-4 Workshop in Alcohol Education.

471-4 Organization, Administration and Curriculum in School Health.

475s-4 Traffic Law Enforcement and Planning. Acquaints safety and driver education teachers with the purposes of traffic law enforcement and engineering and the methods used to fulfill these purposes. Emphasis on ways of improving existing services. Prerequisite: 443s.

480s-4 Workshop in Safety Education.**481s-4 Safety Education Workshop.**

485-4 International Health. A survey and analysis of the health beliefs, values, and practices of peoples in other cultures, with particular attention to how these beliefs and practices fit into a total way of life. An international orientation of potential value to both prospective teachers and students in other fields.

488-4 Educational Aspects of Environmental Sanitation.**489-4 Introduction to Vital Statistics.****490-2 to 8 Field Work in School and Community Health.**

491-4 Health Teaching Methods in School and Community. An intensive study of and practice at various dimensions of teacher-student relations in the classroom with emphasis on the multiple roles of the teacher. Prerequisites: 305, 471 or consent of instructor.

500-4 Community Organization for Health Education.**510-4 Construction of the Curriculum in Health Education.****511-5 Practicum in Health Education Workshop.****515-4 Review Current Literature in Health Education Public Health and Safety Education.****520-4 to 6 Special Projects.****525s-4 Organization Administration and Supervision of Safety Education.****526-4 Evaluation in Health Education.****530s-4 Problems and Research in Accident Prevention.****533-12 (4,4,4) Human Conservation.****536-4 Professional Preparation in Health Education.****590-4 to 12 Field Internship.****597-3 (1,1,1) Seminar in Health Education.****599-3 to 9 Thesis.****600-1 to 48 Dissertation.**

Higher Education

402-2 Principles of College Student Personnel Work. Survey of philosophy and principles of college student personnel activities. Required of resident fellows.

510-4 Higher Education in the United States.**512-4 Higher Education in Selected Nations.****513-4 Organization and Administration in Higher Education.****515-4 College Student Personnel Work: Operations and Policies.****516-4 College Student and College Culture.****518-4 College Teacher and College Teaching.****522-1 to 12 Readings in Higher Education.****523-1 to 12 Internship in Higher Education. (Selected areas.)****524-2 to 6 Individual Study.****535-2 to 28 Higher Education Seminar I.****545-3 to 15 Higher Education Seminar II.****551-4 Curriculum Design and Policy.****555-4 Philosophy of Higher Education.****565-4 The Community-Junior College.****578-4 Economic Aspects of Higher Education.****589-4 to 6 Advanced Research.****599-1 to 9 Thesis.****600-1 to 48 Dissertation.**

History

GSB 300-9 (3,3,3) History of the United States. -

304-9 (3,3,3) History of the Ancient World. (a) The Near East; b) Greece; (c) Rome. May be taken individually or in any sequence.

308-3 History of Illinois. The history of the state from 1818 to the present.

Recommended for students with a concentration in history and those who expect to teach in elementary schools.

309-4 The Negro in America. The role of the Negro in America from the seventeenth century to the present with emphasis on the period since 1865.

322-12 (4,4,4) English History. (a) Britain to 1603; (b) 1603-1815; (c) since 1815. May be taken individually or in any sequence.

330-3 The Revolution and the Constitution. A study of the conflicting forces which produced the American Revolution, led to the creation of the federal union and shaped the early republic.

332-9 (3,3,3) Medieval History. (a) Early Middle Ages, 500-1000, (b) High Middle Ages, 1000-1300, (c) Late Middle Ages, 1300-1500. Prerequisite: sophomore standing.

333-9 (3,3,3) Modern European History. (a) Early modern Europe. (b) The 18th and 19th centuries. (c) The 20th century.

349-9 (3,3,3) History of Africa. (a) Pre-colonial Africa. Sub-Saharan Africa from earliest times; early empires in East, Central, and West Africa; pre-colonial relationships with Europe and Asia; the slave trade. (b) Africa in the colonial period. Colonial empires in Africa; institutional changes brought by western rule; and nationalistic reaction. (c) Independent Africa. The emergence of modern African states and societies.

352-9 (3,3,3) History of Latin America. (a) Colonial Latin America; (b) Independent Latin America; (c) Latin America in World Affairs. May be taken individually or in any sequence.

365-6 (3,3) History of Chinese Civilization. The march of Chinese civilization from prehistoric times to the present stressing social structure, government institutions, and intellectual movements. (a) Antiquity to 1644; (b) 1644 to present. Offered alternate years with 367. Prerequisite: six hours of 300-level Social Science or consent of instructor.

367-6 (3,3) History of the Far East. (a) Introduction to 1800; (b) 1800-1945. May be taken singly or in either sequence.

GSB 369-3 The Contemporary Far East.

GSB 380-6 (3,3) East Europe.

398-3 History Honors. For junior honors students concentrating on methodology and directed research. Prerequisite: consent of department.

401-6 (3,3) History of the South. (a) The Old South; (b) The New South. An intensive study of the social, economic, political and cultural developments of the South.

403-6 (3,3) American Economic History. (a) To 1800. (b) 1800-1900.

405-6 (3,3) The American Civil War. Emphasis upon the clash of national and sectional interests; economic, political, and military aspects of the conflict. Prerequisite: GSB 300b, or consent of instructor.

406-6 (3,3) Diplomatic History of Europe. (a) From the Congress of Vienna to the Fall of Bismarck (1815-1890). (b) From the background of the First World War to the present (since 1890).

409-6 (3,3) United States Constitutional History. Origin and development of the American constitution, from English background through the convention to the present. (a) 19th Century. (b) 20th Century.

410-2 to 5 Special Readings in History. Supervised readings for students with sufficient background. Registration by special permission only. Offered on demand.

411-9 (3,3,3) Social and Intellectual History of the United States. (a) 1607-1830; (b) 1830-1900; (c) 1900 to present. The development of American society and a study of various types of economic, social, and political thought that have influenced it.

414-9 (3,3,3) Intellectual History of Modern Europe. (a) The Enlightenment; (b) The 19th century; (c) The 20th century.

416-6 (3,3) Early Modern Europe. (a) Renaissance. (b) Reformation. Prerequisite: six hours of 300-level social science or consent of instructor.

417-9 (3,3,3) Advanced English History. (a) The Empire-Commonwealth; (b) Constitutional History; (c) English Culture in the Age of American Colonization.

419-9 (3,3) Europe in the Age of Absolutism. (a) 1648-1715. (b) 1715-1789. Prerequisite: six hours of social science at 300 level or consent of instructor.

420-3 The French Revolution. A sketch of the passing of feudalism in France, the background and development of the revolutionary movement, and the Napoleonic period.

- 425-6 (3,3) American Colonial History.** (a) Discovery and Settlement; (b) British Imperial structure-American independence.
- 428-3 The Age of Jackson.** Origins, background, and development of that phase of American democracy associated with the Jacksonian era. The political, social, and economic history of the years 1815-44 considered in detail. Prerequisite: GSB 300a.
- 430-9 (3,3,3) Late Modern Europe.** (a) Age of Revolution, 1815-1880; (b) 1880-1918; (c) Since 1918. Age of Dictatorships.
- 434-9 (3,3,3) The Social and Political History of Modern Europe.** (a) 1815-1870. (b) 1870-1914. (c) Since 1914. Prerequisite: six hours of 300-level social science or consent of instructor.
- 440-9 (3,3,3) History of American Diplomacy.** A study of the important treaty relations of the United States and a general consideration of American foreign policies. (a) America in isolation (to 1860). (b) The emerging America (from 1860 to 1920). (c) America on the world scene (1920 to the present). Prerequisite: GSB 300a,b.
- 442-9 (3,3,3) History of the West.** (a) Colonial; (b) Trans-Allegheny; (c) Trans-Mississippi.
- 448-3 Introduction to the History of Southeast Asia.** A survey from the earliest times with emphasis on the recent and contemporary developments.
- 449-3 Development of Afro-Asian Nationalism.** A study of the rise of national movements, the winning of independence, and the vast array of political and economic problems since independence.
- 451-3 Historiography.** Development of history as a written subject, including works and philosophy of the various historians in ancient, medieval, and modern periods.
- 452-3 Historical Research and Thesis Writing.** The rules of historical research studied and applied to a definite topic. (For concentrations in history only.)
- 455-3 History of Inner-Asian Relations.** Tribes, migrations, wars, and power politics in Central Asia and outlying areas of China from Han times through 19th century rivalries to latest developments along the Sino-Soviet frontier.
- 460-9 (3,3,3) Social and Intellectual History of the Middle Ages.** (a) 500-1000; (b) 1000-1250; (c) 1250-1500.
- 464-6 (3,3) History of Germany.** (a) German state and society from the Middle Ages to the early 19th century. (b) Germany since 1815. Prerequisite: six hours of 300-level social science or consent of instructor.
- 465-6 (3,3) History of Russia.** (a) Traditional Russia to 1905. (b) Revolutionary Russia since 1905. Prerequisite: GSB 101b,c or consent of instructor.
- 470-3 Argentina and Chile.** A narrative and comparative study of the independent era of the history of the three leading states of South America.
- 471-6 (3,3) History of Mexico.** (a) 19th century; (b) 20th century. Significant political, economic, diplomatic, social, and cultural aspects of Mexican life from independence to modern Mexican life.
- 473-6 (3,3) The Caribbean Area.** (a) In the 18th and 19th centuries, (b) in the 20th century.
- 475-6 (3,3) Dictatorships in Latin America.** (a) the 19th century; (b) the 20th century. A political, economic, social and military study of the domestic and international aspects of dictatorship. Prerequisite: Junior standing or higher.
- 481-6 (3,3) History of Rome.** (a) Rome from Republic to Empire, 133 B.C.-A.D. 14. (b) Roman Empire to the death of Constantine. Prerequisite: six hours of 300-level social science or consent of instructor.
- 498-6 (3,3) History Honors.** Study of the great ideas and works of history, for senior honors students and selected graduate students, and directed research for the honors thesis for senior honors students. (a) History honors. (b) Research, honors thesis. Prerequisite: consent of department.
- 500-12 to 30 (4 to 10 each) History Seminar.** (a) American history; (b) European history; (c) Latin American history.
- 509-3 Studies in Negro History.**
- 510-2 to 12 Readings in History.**
- 511-3 Studies in the Middle Ages.**
- 512-3 Studies in Modern Europe.**
- 514-3 Studies in Asian History.**
- 515-6 (3,3) Seminar in Twentieth Century United States History.**
- 516-6 to 12 (3,3) Seminar in European History.**
- 518-3 England in the Age of the "Glorious Revolution."**

- 519-6 (3,3) **The Age of Jefferson.**
520-6 (3,3) **Sectionalism and Reform.**
521-6 (3,3) **Seminar in American Diplomatic History.**
522-6 (3,3) **Seminar in American Economic History.**
523-6 (3,3) **Seminar in American Social History.**
524-6 (3,3) **Seminar in American Constitutional History.**
525-6 (3,3) **Seminar in American Colonial History.**
553-3 **New Viewpoints in American History.**
568-6 (3,3) **Seminar in Illinois History.**
574-3 **United States—Mexican Relations.**
575-9 (3,3,3) **Studies in Latin American History.**
598-3 (1,1,1) **Teaching History in College.**
599-1 to 9 **Thesis.**

Home and Family

- 227-3 **Family Living.** A study of relationships and adjustments in family living, designed largely to help the individual.
237-3 **Child Development.** Principles of development and guidance of children as applied to home situations. Directed observation involving children of varying ages.
300-3 **Home Economics for Men.** Units dealing with food selection, serving, and table practice; economics of the home; grooming and clothing selection; family relations; consideration of personality evaluation. Field trip.
301-3 **Home Arts and Social Usage.** Emphasis on the home arts and social usage that will provide for more satisfying personal and family living. For women who are not concentrating in home economics.
302-4 **Basics of Family Living.** Job oriented course for social welfare workers; selected units in several aspects of homemaking with application to the low income family.
323-2 **Housing.** Housing needs of families. Housing design, plans, and construction. Historic modes of housing.
324-3 **Equipment.** Selection, use, and care. Field trips.
331-3 **Management of Family Resources.** A study of factors affecting the management of the home in meeting the needs of individuals and creating a satisfying environment for the family. Special consideration given to those problems involving the use of time, money, and energy.
332-4 **Home Management Residence.** Six weeks' residence in Home Management House, with actual experience in different phases of homemaking. Field trip. Prerequisites or required concomitants: 227, 331.
341-4 **Consumer Problems.** Study of motives of consumption, family income and expenditures, selection of commodities and services, buying and selling practices, and evaluation of consumer aids. Consideration of contemporary consumer problems. Field trips.
345-5 (2,3) **Child Development Practicum.** Observation and participation in the guidance of pre-school children. (a) Preparation and use of materials; equipment and activities. One hour lecture, 2 hours laboratory; (b) Planning and executing a variety of experiences for preschool children. One hour seminar, 3 hours laboratory. Part b may be elected independently of a.
366-3 **Family Development.** Study of changing patterns in family living throughout the family life cycle. Prerequisites: 227 or GSB 341.
407-2 to 8 **Workshop.** Designed to aid workers in professions related to home and family. Emphasis for the workshop will be stated in the announcement of the course.
423-4 **Advanced Family Housing.** Further appreciation and understanding of aesthetic, economic, psychic, and social factors influencing choice of family housing today. Prerequisite: 323 or consent of instructor.
424-4 **Selection, Use, and Care of Appliances.** Materials used in equipment, methods of construction, principles of operation of appliances for cooking, refrigeration, laundering, cleaning; selection, operation, and care of appliances to obtain maximum satisfaction in use. Prerequisite: 324 or consent of instructor.
435-4 **Work Simplification in Home Management.** Basic scientific work simplification principles applied to work done in the home by full-time employed or physically handicapped homemakers.
445-4 **Administration of Pre-School Programs.** Objectives in pre-school pro-

grams. Programming including housing, equipment, health protection, and supervision. Field trip. Prerequisite: 345b or consent of instructor.

456-4 Infant Development. Current theories and knowledge concerning growth and development of infants with related laboratory and field experiences. Prerequisite: 237 or Psychology 301 or equivalent.

466-2 Practicum in Parent-Child Study. Designed to increase student's ability to work with parents and parent groups through an awareness of factors in the parent-child relationship and knowledge of current research and methods in parent education. Integration with infant and child development laboratories and related field experience. Prerequisites: 227, 237 or equivalent.

471-2 to 6 Field Experience. Opportunity for supervised learning experiences in selected areas. Prerequisite: Consent of departmental chairman.

481-2 to 6 Readings. Supervised readings for qualified students. Prerequisite: consent of instructor and chairman.

500-4 Research Methods.

540-4 Trends in Consumer Problems.

550-4 Advanced Home Management.

556-4 The Pre-School Child.

562-4 Child Development Through Home and School.

566-4 Interpersonal Relationships Within the Family.

571-4 Recent Research.

572-2 to 8 Special Problems.

599-5 to 9 Thesis.

600-3 to 48 Dissertation.

Home Economics

The Home Economics Honors courses are listed below. In each course, the subject matter depends upon the needs and interests of the students.

305-2 to 6 Home Economics Honors Seminar.

306-2 to 6 Home Economics Honors Seminar.

387-2 to 8 Special Problems—Honors.

388-2 to 8 Research and Investigations—Honors.

Home Economics Education

111-2 Home Economics Orientation. Surveying professional opportunities in home economics; planning for the development of personal and professional proficiencies.

306-2 Seminar and Readings in Home Economics Education. A philosophical approach to the field of home economics. Social, psychological, anthropological, economic considerations as held by home economists and others in relation to the professions in the field of home economics and for homemaking in a democratic society. Offered alternate years.

307-3 Methods of Teaching for Dietetics Majors. Designed as preparation for the teaching role of the dietitian. Selection and organization of materials. Practice in using a variety of techniques and teaching aids. Offered alternate years.

309a-3 Program Planning in Home Economics. Philosophy; the total vocational program in home economics education; developing files. Student should register for 313-1 concurrently or prior to 309 for the pre-student teaching and September Field Experience. Prerequisite or concurrently Guidance 305; Secondary Education 310.

309b-3 Methods of Teaching in Home Economics. Curriculum, unit and lesson planning, methods, techniques, and teaching aids; completing files. Prerequisite: 309a. To be taken the quarter preceding student teaching.

310-4 Evaluation and Adult Education. Using and developing instruments for evaluation with respect to goals of a family-community centered home-making program and preparing students to carry on adult education. Prerequisites: 309 and Secondary Education 352b concurrently.

313-2 to 4 Special Problems. For students recommended by their chairman and approved by the chairman of their department and the instructor in charge for independent, directed study. Prerequisite: 309.

370-5 History, Development, and Principles of Extension Work. A study of the history, development, organization, and purposes of extension work. Discussion of problems and principles of conducting and administering extension work in home economics. Field trips. Offered alternate years.

371-6 Field Experience. Six weeks of observing and assisting a county home adviser. Opportunity for supervised learning experiences in various phases of extension work. Prerequisite: 370.

414-4 Home Economics for Elementary Teachers. Units of work in nutrition, school lunches, family and social relationships, textiles, and clothing.

415-1 Introduction to Graduate Study. Seminar to orient the student to graduate work through relation of courses to goals of program, standards of work, habits of thinking, communication of ideas, uses of professional materials and publications. Required. Students should take at first opportunity.

481-2 to 6 Readings. Supervised readings for qualified students. Prerequisite: consent of instructor and chairman of department.

500-4 Research Methods.

505-4 Home Economics in Secondary Schools.

506-4 Evaluative Procedures in Home Economics.

507-2 to 8 Workshop.

510-4 Supervision of Home Economics.

510a-1 to 4 Practicum in Supervision.

515-4 Trends and Issues.

516-4 Advanced Methods of Teaching Home Economics.

517-4 Methods and Materials for Adult Programs in Home Economics.

571-4 Recent Research.

572-2 to 8 Special Problems.

573-1 to 6 Seminar: Research in Home Economics.

599-5 to 9 Thesis.

600-3 to 48 Dissertation.

Industrial Technology

100-2 Orientation. (See Engineering Technology 100.)

259-3 to 80 Shop and Drafting Courses. (See Technical and Industrial Education 259.)

300-8 (4,4) Plastic Materials and Processes. (a) An introduction to the general field of plastics. History, development, commercial materials, and processing will be explored; (b) Thermoplastics, including a study of the materials, equipment, design, tooling, and techniques of forming. Laboratory. May be taken in any sequence. Prerequisite: GSA 101b.

304-9 (3,3,3) Architectural Design. (a) Basic room planning, analysis of family needs, utilization of building sites, and developing preliminary plans; (b) Preparation of house plans, including elevations, details, plot plans, and service plans; (c) Advanced residential planning and designing; standards, codes, specifications, and research. Laboratory. Must be taken in a,b,c sequence. Prerequisite: one course in high school drafting or sketching.

305-9 (3,3,3) Design Illustration. (a) Basic pictorial illustration, axonometric projection methods and rendering; (b) Basic pictorial illustration, perspective projection methods and rendering; (c) Idea computation, detail, assembly, oblique, diagrammatic and axonometric sketching, manufacturing, maintenance, and assembly illustration. Integrated system schematics. Laboratory. Must be taken in sequence. Prerequisite: Engineering Technology 101.

306-9 (3,3,3) Industrial Design. (a) Basic design with industrial materials. (b) Advanced design problems with opportunity for concentration in one or two areas of industry; (c) Applied industrial design through cooperative arrangements with industry. Laboratory. Must be taken in sequence. Prerequisite: Technology 101a.

307-5 Analytical Problems in Technology. Methods of formulation and solution of special problems encountered in industry and technology using advanced techniques. Prerequisites: Mathematics 111a,b or equivalent.

314-3 Metal Casting Processes. Analysis of sand, permanent mold, die casting, investment, shell mold, and centrifugal casting processes including mold cavity design, testing instrumentation, and production equipment. Lecture, laboratory. Prerequisite: Mathematics 111a or equivalent.

318-3 Materials Joining. Fundamentals in the techniques, care and use of

oxyacetylene and electric arc welding and flame-cutting equipment on the common metals. Lecture, laboratory.

319-3 to 24 (3 per quarter) Industrial Internship. Industrial experience includes job skills, manufacturing processes, technical information, and labor-management relationships with supervised instruction, conferences and examinations. Prerequisite: consent of instructor.

325-6 (3,3) Metal Removal Processes. (a) Automatic and specialty production equipment systems and the newer metal removal techniques of chemical, electro-discharge, and ultrasonic machining. Production analysis for economy, quality, and service; (b) Machineability criteria—the interrelationship of speed, tool geometry, cutting forces, surface finish, cutting temperature, horsepower, geometric tolerances, cutting materials, work materials, depth of cut, feed, and economics. Properties and structure of carbide, high speed steel, ceramic, diamond, and abrasive cutting materials. Lecture, laboratory. Prerequisite: Mathematics 111a.

341-3 Maintenance. Care, repair, sharpening, and maintenance of cutting tools, hand tools, portable power tools, and machine tools. Prerequisite: 312a, 327a. Prerequisite: junior standing.

342-3 Industrial Finishes. Methods, tools, and equipment used in finishing the common industrial materials; surface preparations; application procedures, types of finishes; and restoring and refinishing techniques. Laboratory. Must be taken in sequence. Prerequisite: 312a, 327a.

351-3 Product Control. (Same as Engineering Technology 351.) Control of size and geometric specifications with emphasis on comparative gauges and work holding devices. Laboratory. Prerequisite: junior standing.

Instructional Materials

308-4 Introduction to Cataloging. Organization of library materials for effective service. Acquisition, classification, cataloging, preparation, preservation, and circulation. Laboratory assignments.

400-2 Library Research Methods. Introduction to the use of library materials in graduate research. Includes a survey of scholarly publishing and the use of reference works in various subjects.

403-4 School Library Functions and Management. Effective library services in relation to the educational objectives of elementary and secondary school programs: organization, supervision, finance, housing, equipment, standards, and evaluation.

405-4 Library Materials for Children. Study of the aids, methods, and criteria for the selection and use of books and other instructional materials for children in the elementary schools. Open to juniors with consent of instructor.

406-4 Library Materials for Adolescents. A study of the aids, methods, and criteria for the selection and use of books and other instructional materials for students in the high school. Open to juniors with consent of instructor.

407-4 Basic Reference Sources. Evaluation, selection, and use of reference sources for elementary and secondary school libraries. Principles and methods of reference service.

410-4 Public Library Administration. The administration of municipal, county, and regional libraries, both large and small, with emphasis on meeting the needs of different types of communities.

413-4 Cataloging of NonBook Materials. The classification, cataloging, preparation and circulation of all types of nonbook materials such as films, filmstrips, slides, realia, etc. Prerequisite: 308.

417-4 Audia-Visual Methods in Education. Selection and utilization of instructional materials in the learning environment, elementary through adult levels. Audio and visual materials and procedures are emphasized with some attention given to bibliographies and reference books for teachers.

420-4 School Library Activities and Practice. Supervised practice and observation integrated with instruction in the typical activities of school librarianship: storytelling, publicity, developing units of library instruction, and work with students. Prerequisites: 308, 403, 405, or 406, 407.

440-2 Photography for Teachers. Techniques of picture-taking and the preparation of color slides of community resources for use in classroom instruction and for school public relations.

445-4 Preparation of Teacher-Made Audio-Visual Materials. Laboratory

practice in the preparation of bulletin boards, opaque materials, models, slides, recordings, feltboards, and other graphic materials. Prerequisite: 417 or consent of instructor.

448-4 Supervision and Administration of an Audio-Visual Program. Provides professional information and training for anyone who has administrative responsibilities for an audio-visual program. For teachers, coordinators, or directors. Prerequisite: 417 or consent of instructor.

450-2 Classroom Teaching with Television. Classroom utilization of open and closed circuit television. Emphasis is placed on the changed role of the classroom teacher who uses television. Evaluation of programming, technicalities of ETV, and definition of responsibilities are included. Demonstration and a tour of production facilities are provided.

457-4 Radio and Television in the Classroom. Educational programs and their value to the teacher in the classroom. Sample tapes of radio programs and kinescopes are used.

458-4 The Medium of the Motion Picture. A study of the full range of expression by motion pictures including the documentary, theatrical, educational, experimental, and industrial films. Representative films are screened.

470-4 Program Automated Instruction. The principles and practices of writing both linear and intrinsic types of programmed instruction with emphasis on pictorial and performance branches. Individual experience in planning and producing programs.

510-4 Mass Communications in Education.

514-4 Survey of Research and Development in Instructional Materials.

523-4 Seminar on Junior College Librarianship.

530-4 History of Books and Libraries.

546-4 Integration of Audio-Visual Materials in the Classroom.

547-4 School Film and Filmstrip Production.

549-4 Visual Learning.

554-4 Administration of an Instructional Materials Center.

560-4 Seminar in Instructional Materials.

576-2 to 8 Problems in Instructional Materials.

599-5 to 9 Thesis.

600-1 to 48 Dissertation.

Journalism

100-1 Current Events. Contemporary events in the modern world and their treatment in the newspaper and periodical press. May not be counted toward the journalism concentration.

101-3, 102-3 Introduction to Journalism, I, II. Development of the newspaper and other media in America; role of the press in modern society.

103-3 News. Study of the newspaper story with experience in writing and rewriting news; the fundamentals of copyreading.

201-3, 202-3, 303-3 News Writing and Editing I, II, III. How to cover assignments and write news stories; preparation of copy for publication; writing headlines; laboratory exercises.

265-4 Machine Composition. (See Cinema and Photography 265.)

297-3 Introduction to Magazine Journalism. The magazine as a journalistic medium. Its varied divisions in general circulation, professional, technical, industrial, and specialized publications. The nature and extent of magazine work: staff and free lance.

303-3 (See 201).

310-3 Radio-TV News. (See Radio-Television 310.)

330-3 Editorial Writing. The work and responsibility of the editor and editorial writer with emphasis upon editorial writing and thinking. Editorial problems, methods, policies, and style.

345-3 History of Journalism. Development of American journalism with emphasis upon the struggle for freedom of the press, leading editors, outstanding newspapers and periodicals.

346-3 Comparative Journalism. Analysis of editorial and management policies and methods of American newspapers, with particular reference to economic and social factors affecting them.

350-3 The Community Newspaper. The small newspaper recognized as a distinct medium, performing a specialized function for its readers. Equal

weight given to the problem of news presentation and to leadership with careful examination of news and editorial policies of representative newspapers. **351-3 Community Newspaper Management.** Organization, operation, and policy of the revenue departments of the weekly and small daily newspapers with special attention to the circulation procedures, retail, general, and classified advertising problems, and other phases of management.

360-8 to 12 (3,3,2 to 6) Publications Photography. See Cinema & Photography 360.

369-3 Magazine Writing. The writing of magazine articles by the free-lancer and staff member. Prerequisites: 103, 201, 202.

370-3 Principles of Advertising. Advertising fundamentals in relation to modern business activities; economic and social aspects, research, media, appeals, production, schedules. Prerequisite: Economics 205.

371-3 Advertising Salesmanship. Practical application of the principles of advertising copy and layout as related to the mechanics and psychology of space selling. Students engage in daily work with newspaper advertisers, handling specific assignments in various lines of business. Prerequisite: 370.

372-5 Advertising Copy, Layout, and Production. The principles and practices in the preparation of copy and layout for all types and forms of advertising, as well as study of the processes involved in the production of advertising.

373-3 Advertising Media and Markets. Manufacturers' advertising procedures related to campaigns, markets and market research, media, and organization of the advertising function. Prerequisite: 370.

374-3 Advertising Policies and Problems. Application of advertising principles to merchandising, sales, promotion, research. Prerequisite: consent of instructor.

376-4 Advertising Campaigns. Application of advertising principles and skills to the solution of a specific problem; coordination of strategy and technique. Prerequisite: consent of instructor.

382-3 Newspaper Promotion and Circulation.

383-6 (3,3) Newspaper Production Management. Organization and function of the mechanical department; costs and cost accounting; personnel problems.

385-1 to 2 Radio-TV Special Events.

390-3 Advanced Reporting. Covering city council meetings, courthouse, city hall, courts, society, and other special assignments.

391-3 Feature Writing. How to plan and write newspaper features and special articles.

393-3 Publicity Methods. Not open to students with concentration in journalism. Designed for students who do not plan a career in writing, but desire guidance and practice in writing for newspapers and magazines about their fields of specialization.

395-3 Introduction to Mass Communication Theory. Acquaints the student with current concepts in mass communication theory and empirical evidence derived from investigations generated by the theory. Contains three areas: the communication process, social and psychological effects on the new process, and mass communication and political behavior. Prerequisite: senior standing.

396-3 Editorial Production. Practical work in details of planning and producing one or more issues of a newspaper. Field trips.

397-3 Special Publications. The function and operation of industrial, trade, and business publications. Relationships of management and personnel through the editorial policies and practices of such special publications.

398-3 Magazine Production and Layout. The editorial and production functions of the magazine. Application of the principles of article layout and makeup to editorial content. Relationships with printing production.

399-1 Senior Seminar. Contemporary newspaper policies as related to professional journalism. To be taken in the student's last quarter.

401-3 International Journalism. A study of the history, development, current status and implications of the press and news services of other countries, and their relationship to the international communications system.

420-2 to 4 High School Journalism Clinic. For public school teachers.

421-4 School Publications. Designed for the prospective journalism teacher or high school publication director. Deals with practical production problems of newspapers and yearbooks.

422-3 Teaching High School Journalism. Teaching methods of journalism in secondary schools, organization and course of study, bibliography, use of journalism courses for school publications production.

- 431-3 Public Relations.** Study of current methods of planning and executing public relations policies; evaluation of media; preparation of campaigns.
- 432-3 Foundations of Mass Communications Theory.** Construction of communication theory, development of communication models, and relation of empirical investigations to theories of mass communication.
- 433-6 (3,3) Research Theory and Design.** (a) Research design, sample selection, and methods appropriate to field, experimental, and survey research. (b) Research Methods. Series of research projects utilizing a variety of research methods. Class discussion precedes and follows each project.
- 442-3 The Law of Journalism.** Legal limitations and privileges affecting publishing, fair comment, criticism, contempt of court, right of privacy, copyright, and legal provisions affecting advertising.
- 449-2 to 8 Practicum.** Study, observation, and participation in publication supervision. Work required on *The Egyptian* newspaper.
- 479-3 Role of Advertising in our Society.** An exhaustive analysis of the literature covering such topics as: definitions and scope of advertising; advertising and the press; advertising as a social and economic force; evaluation of advertising, policies as related to the practices of specific business firms.
- 493-3 Publicity Methods II.**
- 495-3 Book Reviewing.** Theory and practice in reviewing modern books; study of newspapers and magazines devoted entirely or in part to this type of journalism.
- 499-3 Summer Workshop in News Analysis in the Classroom.** A study of the relationship of the newspaper to other high school coursework. Time spent in developing ways of integrating the newspaper in the classroom.
- 501-3 Literature of Journalism.**
- 530-2 Seminar in Press Freedom.**
- 531-3 Seminar: Public Relations.** Problems in formulation of public relations policies. Emphasizes fact finding, determination of objectives, orientation of plans toward specific publics, execution, and evaluation. Prerequisite: 431.
- 532-4 Seminar: Mass Communication Theory.**
- 533-1 to 4 Research Problems in Journalism.**
- 540-3 Philosophy of Journalism.**
- 545-3 Studies in Journalism History.**
- 590-3 Seminar in Journalism History.**
- 595-0 Graduate Seminar.**
- 599-1 to 8 Thesis.**
- 600-1 to 48 Dissertation.**

Management

- 170-4 Introduction to Business Administration.** A survey of business, intended to give to the student a general knowledge of the modern business world, a better basis for choosing his specialty, and certain information not covered in the various specialized courses offered.
- 271-4 Business Writing.** Principles and practice in writing typical kinds of business correspondence and reports. Prerequisite: GSD 101.
- 340-4 Business Organization and Management.** Business organization, management theory, and practice. Prerequisite: GSB 201b,c or equivalent and junior standing or consent of instructor.
- 345-4 Information Systems and Computer Fundamentals.** Structure and nature of information systems. Includes information processing, elementary computer programming in FORTRAN IV or other appropriate language, the nature and use of the digital computer. Prerequisite: 340, or Finance 320, or Marketing 301; Accounting 261; or consent of instructor.
- 350-4 Management Systems.** Organizational activities and informational requirements of management viewed as systems modeled for systematic investigation leading to effective management and decision making. Representative management systems studied, charted, and manipulated. Prerequisite: 340, 345, or consent of instructor.
- 361-4 Research in Business Administration.** Design of research to assist managerial decision-making. Concepts, tools, sources, and methods of business research. Planning, collecting, organizing, evaluating, and presenting research data. Prerequisite: 340, GSD 102, 103; GSD 110, or equivalent, or consent of instructor.

- 380-4 Production Management.** Plant location, design, and construction; internal organization for operations, production control, stores control, routing of materials, job analysis, and time study; wage systems, subdivision of executive responsibilities and duties; methods of coordination and planning. Prerequisite: 340, 345, Mathematics 150a or equivalent, or consent of instructor.
- 382-4 Performance Standards and Methods Improvement.** Concepts, methods, and principles for analyzing industrial operations with the objective of simplifying, improving, and reducing the cost of these operations. Use of process charts to increase productivity. Development of industrial performance standards. Prerequisite: 340 or consent of instructor.
- 385-4 Personnel Management.** Relations of the human element to production; the art of securing understanding and cooperation; employee organizations and outside activities; work of the personnel department; wage standards and working conditions. Prerequisite: 340, GSD 110 or equivalent, or consent of instructor.
- 430-4 Organizational Behavior I.** The study of human problems in administration; individual, group, intergroup, and organizational behavior under dynamic environment conditions. Theory and case analyses. Prerequisite: 340, GSD 110 or equivalent, or consent of instructor.
- 431-4 Organizational Behavior II.** A study of classical and modern theories concerning complex organizations. Particular emphasis on processes and issues of dividing work, achieving coordination, and organizational change and adaptation. Prerequisite: 430.
- 440-4 The Management Process.** Analysis of management theories and the administrative process. Specific managerial activities are analyzed and discussed. Functional relationships in administered organizations are explored. Restricted to MBA students.
- 451-4 Methods of Quantitative Analysis.** Introduction to modern mathematical technologies applicable to calculus, matrix algebra, and probability theory. Not open to students who have taken Mathematics 150a or equivalent.
- 452-4 Business Operations Analysis.** Analysis of business operations and management problems emphasizing problem formulation, performance measures, decision criteria and various mathematical models and their application; linear programming, game theory. Prerequisite: 451, or Mathematics 150a or equivalent; GSD 110 or equivalent; or consent of instructor.
- 460-4 Work Measurement for Wage and Salary Control.** Research design and methodology for wage and salary administration in an organization; fundamental considerations in evaluating jobs and positions; compensation methods and wage incentive systems. Prerequisite: 385.
- 461-4 Management Decision Making.** Survey of problem solving theories and methods; decision information and systems models and applications. Analysis of administrative behavior in the decision process within formal organizations; socio-economic constraints and their interaction. Prerequisite: senior standing or consent of instructor.
- 472-4 Small Business.** Small business analysis, primarily through case studies of business financing, location, organization, merchandising practices, records, government regulation, and taxes. Open only to students with concentration in business.
- 474-4 Management Responsibility in Society.** Analysis of the political, social, and economic environments in which the manager must function and the manner in which the executive has both adapted to and influenced his environment. Prerequisite: 340, senior standing, or consent of instructor.
- 479-4 Problems in Business and Economics.** Application of economic theory and tools of analysis to practical business problems. Cost and demand functions are analyzed from a policy standpoint. Prerequisite: 340; Economics 215, 308, or 408, or equivalent; Marketing 301 or equivalent; senior standing; or consent of instructor.
- 480-4 Recent Problems in Labor Law.** Social, economic, and legal evaluations of recent labor problems, court decisions, and legislation. Concern is on long-run legislative impact on manpower planning, dispute settlement, and utilization of employment resources. Prerequisite: Finance 371, or Economics 310, Government 395, or consent of instructor.
- 481-4 Administrative Policy.** Integration and analytical application of business core courses to comprehensive business cases. Emphasis on policy issues in the identification and resolution of business problems. Methods of providing simulated experience such as business gaming will be used where appropriate. Prerequisite: 340, Finance 320, Marketing 301 or equivalent.

483-4 Advanced Production Management. Internal problems of managerial control of production including recent developments in theory and techniques; case material will be utilized for the development of analytical ability. Prerequisite: 380.

485-4 Problems in Personnel Management. Analysis of problems in personnel administration arising from current developments in organization; case problems and special reports; and personnel practices. Prerequisite: 385, Economics 308 or 408, Marketing 361.

Marketing

301-4 Marketing Fundamentals. Management of a firm's marketing function within a dynamic operating environment. The role of marketing within the firm and its relationship to the economy. Prerequisite: Accounting 251a, Economics 214.

326-4 Quantitative Techniques in Marketing. An introduction to and survey of, mathematical tools of decision making in marketing situations. Application of these techniques to the analyses of marketing problems is emphasized. Prerequisite: 301, Mathematics 150a.

329-4 Retail Management. This is a course designed to present the basic principles and decision areas such as location, layout, organization, personnel, merchandise control, sales promotion, advertising, etc., of retail and wholesale merchandising through an inter-related and managerial perspective. Prerequisite: 301.

335-4 International Marketing. Analysis of international operations. Emphasis on the factors influencing marketing to and within foreign countries and the alternative methods of operations open to international firms. Prerequisite: 301.

341-4 Transportation. Transportation in business. Organization and economic aspects of the United States transportation system including rail, highway, air, pipeline, and water transportation. Regulatory problems of transportation. Current transportation developments and situations. Prerequisite: 301, Economics 215.

363-4 Promotional Concepts. The role of promotional activities in the firm's marketing function. Advertising, personal selling, and sales promotion. The relationship of consumer behavior to the area of promotion. Prerequisite: 301.

390-4 Marketing Research and Analysis. The basic procedures and theory appropriate to solving various types of marketing problems in the context of business organization and decision models. Prerequisite: 301.

401-4 Problems of Retailing. This course is an analysis of current problems and trends in distribution systems and in the marketing of consumer goods. Emphasis is placed upon economic and legal aspects of the retail competitive environment, channels of distribution, retail store operation, and nonstore retailing. Prerequisite: 363.

438-4 Sales Management. Developing and training a sales force. The different types of sales forces. Managing sales functions; determining salesmen's territories, quotas, compensation. Budget preparation. Developing and implementing the merchandise plan. Prerequisite: 363.

439-4 Industrial Marketing Management. Designed to give an over-all view of the field of industrial marketing. Additional emphasis is to be placed on decision criteria. Prerequisite: 363.

450-4 Introduction to Managerial Marketing. Designed to give an over-all view of the field of marketing and the field of marketing policy decisions. Cases are used to illustrate theory covered. Prerequisite: Restricted to MBA students.

452-4 Physical Distribution Management. Integration of physical distribution activities of the firm into a system. Transportation and location as elements of the system. Inventories and service as constraints upon the system. Planning, operation, organization, and management of the system. Prerequisite: 301, Economics 215.

463-4 Advertising Management. The effective use of advertising by business management. An understanding of what advertising can be expected to accomplish under different sets of marketing factors and products. The selection of advantageous advertising programs under different marketing mixes. Prerequisites: 363 and 390.

493-4 Marketing Policies. A comprehensive and integrative view of market-

ing policy formulation. Marketing decisions analyzed and discussed. Prerequisites: 363, 390, and 4 additional hours in Marketing, and Accounting 261.

499-4 Undergraduate Seminar in Marketing. Aspects and issues in the field of marketing. Enrollment limited to senior students of high academic standing. Prerequisite: invitation; completion of 16 hours of Marketing.

Mathematics

111-10 (5,5) College Algebra and Trigonometry. For students who have had intermediate algebra and plane geometry in high school. Must be taken in a,b sequence.

150-10 (5,5) Elementary Calculus and Analytic Geometry. Elementary differential and integral calculus with analytic geometry and applications. Includes the definite integral and differentiation of transcendental functions. Must be taken in a,b sequence. Prerequisite: 111b.

159-14 (7,7) Elementary Calculus—Honors. An honors version of 150 covering the topics of 150 as well as additional selected topics. No student receives credit for both 150a and 159a or for both 150b and 159b. Must be taken in a,b sequence. Prerequisite: consent of department.

225-4 Programming for Digital Computers. An intensive course. Topics include computer organization and characteristics, machine language coding, flow charts, subroutines, symbolic coding, and compiler systems. Equipment of the University's Data Processing and Computing Center is used for applications. Prerequisite: GSD 108c, or 111b, or consent of instructor.

252-9 (5,4) Intermediate Calculus and Analytic Geometry. Continuation of 150. Includes differential and integrated calculus, applications, introduction to solid analytic geometry, infinite series. Must be taken in a,b sequence. Prerequisite: 150b.

259-13 (7,6) Intermediate Calculus—Honors. Covers topics of 252 and additional selected topics. Either part of this course may be substituted for the corresponding part of 252. Credit is not given for corresponding parts of both courses. Must be taken in a,b sequence. Prerequisite: 150b or 159b, and consent of department.

301-3 Fundamental Concepts. A treatment of selected basic topics from set theory, logic, and the real number system. Prerequisite: 150b or consent of department.

305-6 (3,3) Applied Mathematics for the Physical Sciences. (a) Ordinary differential equations, linear algebra, and applications; (b) Additional topics in applied mathematics such as finite difference methods, Laplace transforms, and Fourier series. Must be taken in a,b sequence. Prerequisite: 252b.

310-4 The Teaching of Elementary Mathematics. A professional treatment of the subject matter of arithmetic methods and a study of trends and current literature on the teaching of arithmetic. For elementary education concentration only. Prerequisite: GSD 108b.

311-3 The Teaching of Secondary Mathematics. A study of the nature and objectives of the secondary mathematics curriculum. Particular attention is given to the means of introducing new ideas into the high school program. For students preparing to be certified teachers of secondary mathematics. Does not count toward a mathematics concentration for Bachelor of Arts degree students. Prerequisite: 320a.

319-3 Introduction to Abstract Algebra. The basic abstract algebraic structures. Prerequisite: 301 or consent of department.

321-3 Elementary Matrix Algebra. Matrix operations, determinants, equivalence, congruence, similarity of matrices, applications. Prerequisite: 301 or consent of department.

325-3 Introduction to Number Theory. Properties of integers. Primes, divisibility, congruences, and Diophantine equations. Prerequisite: 301 or consent of department.

335-6 (3,3) Concepts of Geometry. An elementary introduction to various geometric systems to acquaint the student with the interrelationship between geometries of current interest. Topics include axiom systems, absolute plane geometry, Euclidean geometry, and non-Euclidean geometry. Must be taken in a,b sequence. Prerequisite 252a or consent of instructor.

352-2 to 12 Readings in Mathematics. Supervised reading in selected subjects. Prerequisite: 12 hours of 300- or 400-level mathematics, 4.00 grade point average in mathematics, and consent of chairman of department.

400-3 History of Mathematics. An introduction to the development of major mathematical concepts. Particular attention given to the evolution of the abstract concept of space, to the evolution of abstract algebra, to the evolution of the function concept, and to the changes in the concept of rigor in the development of mathematics from 600 B.C. to the present time. Prerequisite: 320a or consent of instructor.

410-16 (4,4,4,4) Statistical Analysis. For students in fields using statistical methods but who are not required to take calculus. Includes (a) elements of probability, estimation, and testing hypotheses; (b) the general linear model (multiple linear regression, analysis of variance, analysis of covariance) and nonparametric statistics; (c) design of experiments; (d) sample survey techniques. May not be used to satisfy requirements for a mathematics concentration. Three lectures and two laboratory hours per week. Must be taken in either a,b,c,d or a,b,d,c sequence. Prerequisites: GSD 108c.

419-6 (3,3) Algebraic Structures. A study of the properties of such basic algebraic structures as groups, rings, fields. Must be taken in a,b sequence. Prerequisite: 301 or consent of department.

421-6 (3,3) Linear Algebra. The theory of determinants and systems of linear equations; vector spaces, linear independence, bases, dimension; linear transformations, change of base, similarity; quadratic and Hermitian forms, orthogonal and unitary transformations; triangular and diagonal form; eigenvalues and eigenvectors; normal matrices; nilpotent and idempotent matrices, the spectral theorem. Must be taken in a,b sequence. Prerequisite: 252b.

425-3 Theory of Numbers. Selected topics from number theory. Prerequisite: 325 or consent of instructor.

426-6 (3,3) Mathematical Logic. A formal development of the classical propositional calculus and functional calculi of first and second order from the primitive basis. Consistency and completeness. Validity and satisfiability. Must be taken in a,b sequence. Prerequisite: 301 or consent of department.

428-6 (3,3) Boolean Algebra and Switching Theory. An introduction to Boolean algebra with applications to switching circuits, set theory, and logic; Boolean functions and canonical forms; Boolean rings and algebras; linear graphs; partially ordered sets and lattices; theory of simplification and design of combinational and sequential circuits. Must be taken in a,b sequence. Prerequisite: 320a or consent of instructor.

430-4 Projective Geometry. Introduction to the fundamental concepts of projective geometry. Topics usually include the study of conics, polar systems of conics, homogeneous coordinates, cross-ratio, harmonic sets, duality, projectivities, and involutions. Prerequisite: 252a or consent of instructor.

433-6 (3,3) Introduction to Topology. Topological spaces, continuity and homeomorphisms, construction of topologies, separation, compactness, connectedness, completeness. Must be taken in a,b sequence. Prerequisite: consent of department.

440-2 to 4¹ Modern Algebra for Teachers. An introduction to algebra as a logical system, including groups, rings, and fields. Prerequisite: consent of instructor.

442-2 to 4¹ Survey of Geometry. A survey of geometry, including projective geometry, topology, etc. Prerequisite: consent of instructor.

444-2 to 4¹ Sets, Functions, and Relations. Basic ideas of sets, set algebra, elementary logic, relations and functions, graphing. Prerequisite: consent of instructor.

445-2 to 4 Fundamental Concepts of Calculus. A careful study of the basic concepts of calculus. Prerequisite: consent of instructor.

452-9 (3,3,3) Advanced Calculus. Fundamental concepts of analysis: limits, continuity, differentiation, and integration. Major topics include partial differentiation, vector analysis, Riemann-Stieltjes integrals, multiple integrals, infinite series, improper integrals, uniform convergence, Fourier series, and line and surface integrals. Must be taken in a,b,c sequence. Prerequisite: 252b.

455-9 (3,3,3) Advanced Mathematics for the Physical Sciences. Introduction to complex variable theory with applications, operational calculus (Laplace and other transforms), vector field theory, and partial differential equations. May be taken individually or in any sequence. Prerequisite: 305b or consent of instructor.

458-6 (3,3) Finite Mathematics. An introduction to topics in finite mathematics such as logic, sets, probability, linear algebra, and Markov chains. For students preparing for high school teaching and for advanced students in the behavioral sciences. Prerequisite: 252a or consent of instructor.

460-4 Modern Geometry. Advanced topics in Euclidean geometry by the synthetic method. Topics include the nine-point circle, Simson line, theorems of Ceva and Menelaus, coaxal circles, harmonic section, poles and polars, similitude, and inversion. Prerequisite: 20 hours of college mathematics.

475-9 (3,3,3) Numerical Analysis. Introduction to approximation methods including finite differences and interpolation; numerical differentiation and quadrature; least square approximation; numerical solution of linear and non-linear systems; numerical integration of systems of ordinary and partial differential equations. Emphasis upon error analysis throughout. Must be taken in a,b,c sequence. Prerequisite: 305a or 252b and consent of instructor.

480-9 (3,3,3) Probability. Introduction to probability theory. Includes the algebra of possibilities; discrete and continuous distributions, limit theorems, generating functions, and some elements of stochastic processes. Must be taken in a,b,c sequence. Prerequisite: 252b.

483-9 (3,3,3) Introduction to Mathematical Statistics. A mathematical development of the elements of statistical theory. (a) Probability distributions, generating functions, and limit theorems; (b) Statistical inference: estimation, tests of hypotheses, general linear hypothesis; (c) Design of experiments—a mathematical model approach. Must be taken in a,b,c sequence with the exception that 480a, 421a, and consent of instructor may replace 483a. A student will not be allowed university credit for both 480a and 483a. Prerequisite: 252b.

501-9 (3,3,3) Real Variables.

505-9 (3,3,3) Theory of Ordinary Differential Equations.

507-9 (3,3,3) Partial Differential Equations.

510-4 Foundations of Mathematics.

520-9 (3,3,3) Modern Algebra.

522-3 to 18 Advanced Topics in Algebra.

528-9 (3,3,3) Theory of Automata.

530-9 (3,3,3) General Topology.

531-6 (3,3) Algebraic Topology.

532-3 to 18 Advanced Topics in Topology.

536-3 Differential Geometry.

540-4¹ Groups and Linear Transformations.

543-4¹ Probability for Teachers.

545-4¹ Intermediate Analysis for High School Teachers.

547-2 to 4¹ The Secondary School Mathematics Program.

548-2 to 4¹ Trends in Elementary School Mathematics.

550-1 to 10 Seminar.

551-9 (3,3,3) Functional Analysis.

552-3 to 18 Advanced Topics in Analysis.

555-9 (3,3,3) Complex Variables.

560-6 (3,3) Calculus of Variations.

580-9 (3,3,3) Mathematical Methods of Statistics.

592-2 to 4¹ Research in Mathematics Education.

595-1 to 10 Special Project.

599-1 to 9 Thesis.

600-1 to 48 Dissertation.

¹These courses are open to candidates for the Master of Science in Education degree in mathematics, to National Science Foundation Institute participants, and to those who have received the consent of the chairman of mathematics or the director of the institute.

Microbiology

301-5 Principles of Microbiology. A survey of morphology, structure, metabolism, population dynamics, and heredity of the microbial agents, with particular emphasis on pure culture methods of study of the bacteria, viruses, and related organisms. Four hours lecture, 5 hours laboratory. Prerequisite: one year of college chemistry and GSA 210a or equivalent.

302-5 General Microbiology. Interrelationships of microorganisms and their positions and influence in the biological world; relationships to soil fertility, host-parasite relationships, mechanisms of infection and resistance, principles of chemotherapy, and their exploitation by man in medicine and industry. Three hours lecture and 5 hours laboratory. Prerequisite: 301.

390-2 to 5 Undergraduate Research Participation. Investigation of a problem either individually or as a part of a research group under direction of a mem-

ber of the Faculty. Prerequisites: 4.00 grade point average in microbiology and/or consent of the department.

401-1 Seminar. Prerequisite: senior standing and consent of instructor. This course may be taken for credit once only.

403-5 Medical Bacteriology. A general survey of the mechanisms of infection, epidemiology, and immunity and the specific application of these principles to the symptomatology, diagnosis, treatment, and control of the more common bacterial infections of man. Three hours lecture and 4 hours laboratory. Prerequisite: 301 and 302.

422-5 Microbiology of Foods. The relationships of microorganisms to the preparation and preservation of foods with consideration of the laws governing sanitation, chemical preservatives, and fair dealing of the food producer. Three hours lecture, 4 hours laboratory. Prerequisite: 301.

423-3 Industrial Fermentation. The application of the chemical activities of microorganisms to the industrial production of beverages, foods, antibiotics, and various commercial chemicals. Prerequisites: 301 and organic chemistry.

425-3 Biochemistry and Physiology of Microorganisms. The chemical basis of physiological functions in microbial cells with emphasis on the pathways of metabolism common to all living things. Three hours lecture. Prerequisites: 301 and organic chemistry.

426-3 Biochemistry and Physiology of Microorganisms. Four hours laboratory and one hour discussion. Prerequisite: 301 and organic chemistry.

441-3 Virology Lecture. Properties, cultivation and titration of viruses and rickettsiae; cellular infection, multiplication and liberation of virus; immunological reactions and serological identification; hemagglutination and interference phenomena. Consideration of selected viral and rickettsial diseases of animals. Prerequisite: 403, 451 and consent of instructor.

442-3 Virology Laboratory. Tissue culture methods and propagation of animal viruses. Viral assay, purification, interference, and haemagglutination reactions. Prerequisite: 441 or concurrent enrollment.

451-6 Immunology. Natural and acquired immunity; antigens, antibodies and antigen-antibody reactions; hypersensitivity; practical use of immunity and hypersensitivity. Three hours lecture, 6 hours laboratory. Prerequisite: 403 and consent of instructor.

461-5 Genetics of Bacteria and the Viruses. Genetic mechanisms, mutation, transformation, recombination, transduction, lysogeny, phenotypic mixing, and reactivation phenomena. 3 hours lecture, 4 hours laboratory. Prerequisite: 302.

462-3 Fungal Genetics. Mendelian and molecular genetics of neurospora and yeast. Mutant induction, sexual crosses, tetrad analysis, linkage, and mapping. Prerequisite: GSA 201.

500-1 Seminar.

502-4 (2,2) History of Genetics.

503-2 Cytology of Microorganisms.

504-5 Methods of Microbiological Research.

511-1 to 15 Research.

525-3 Biochemistry and Physiology of Microorganisms.

526-3 Biochemistry and Physiology of Microorganisms.

528-1 to 10 Readings in Microbiology.

541-6 Advanced Virology.

542-3 Molecular Virology.

562-3 Molecular Genetics.

599-3 to 9 Thesis.

600-3 to 48 Dissertation.

Music

001-5 (1,1,1,1,1) Band. (a) Saluki Marching Band, (b) Symphonic Band, (c) Stage Band, (d) Laboratory Band, and (e) Wind Ensemble. Prerequisite: c,e by audition; a,b,d by consent of instructor.

002-4 (1,1,1,1) (a) University Choir, (b) Chorus Oratorio, (c) Male Glee Club, and (d) Women's Choral Ensemble. May be taken in any sequence. Any part may be repeated for 12 quarters. Prerequisites: Auditions required for a,c,d.

003-2 (1,1) Chamber Orchestra. (a) University orchestra, (b) Southern Illinois Symphony orchestra. Prerequisite: consent of instructor.

010-6 (1,1,1,1,1) Class Applied Music. Offered in all areas of applied music except organ. These courses include the minimum instruction required for passing the proficiency examinations in piano and voice and they offer practical training in the basic principles of playing the instruments of the orchestra and band. They also include introductory techniques and methods for teaching instrumental and choral groups in the elementary and secondary schools.

a. Strings

b. Woodwinds

c. Brass

d. Percussion

e. Piano

f. Voice

May be taken in any sequence.

105-12 (4,4,4) Theory of Music. Fundamentals of music in sight singing, ear training, harmony, and keyboard harmony.

140, 240, 340, 440, 540-1 to 4 Private Applied Music. Offered at five levels in the areas listed below. Credit is given at 1, 2, or 4 hours on each level. Consult with adviser for details of credit and requirements. May be repeated for three quarters at each level. Students with a concentration in Performance usually take 4 hours. Concentrations in music education and all secondary concentrations usually take 2 hours. Prerequisite for 140; music concentration or secondary concentration or consent of music faculty. Prerequisite for higher levels: three quarters at the previous level on the same instrument or consent of instructor.

a. Violin

b. Viola

c. Cello

d. String Bass

e. Flute

f. Oboe

g. Clarinet

h. Bassoon

i. Saxophone

j. Percussion

k. Piano

l. French Horn

m. Trumpet

n. Trombone

o. Tuba

p. Baritone

q. Voice

r. Organ

s. Harpsichord

200-3 Fundamentals of Music. Rudiments of music for those with little or no musical background. Recommended as a course preliminary to 300 (not for music concentrations). May be taken concurrently with 010e.

205-9 (3,3,3) Theory of Music. Advanced harmonic techniques, modulation, altered chords, chromatic harmony, counterpoint, and introduction to contemporary harmonic principles. Must be taken in a,b,c sequence. Prerequisite: 105c.

240-1 to 4 Private Applied Music. (See Music 140).

300-9 (3,3,3) Music Education—Elementary. Teaching music in the elementary grades. (a) For music concentrations only; (b) For nonmusic concentrations only, emphasizing work in grades 4-6; (c) For nonmusic concentrations only, emphasizing work in grades K-3. Prerequisite: 200 or equivalent.

303-3 Music Education—Secondary. Teaching music in the high school.

305I-3 Instrumental Problems and Materials. Administration of the school instrumental music program. Emphasis on library, physical facilities, organization of the marching band, arranging music for out-of-door performances.

305V-3 Vocal Problems, Materials, and Conducting. Vocal and psychological problems in handling choral groups, reading and acquaintance with a variety of choral materials at the high school level, and interpretation through conducting techniques.

309-6 (2,2,2) Arranging. (a) Rudiments of arranging, choral and instrumental; (b) Techniques of arranging for the small ensemble; (c) Techniques of arranging for the large ensemble. Must be taken in a,b,c sequence. Prerequisite: 105c.

312-6 (2,2,2) Composition. Original composition in the smaller forms for piano, voice, string quartet, and other small combinations. Prerequisite: 205c.

315-2 Opera Repertory.

318-6 (2,2,2) Conducting. (a) Basic conducting techniques; (b) Choral or instrumental conducting techniques. Prerequisite: 318a.

326-6 (2,2,2) Analysis. The element of structure, form, and design in musical composition. Prerequisite: 205c.

340-1 to 4 Private Applied Music. (See Music 140.)

341-1 Accompanying Lab. A performance laboratory for students whose principal instrument is piano and who have attained sufficient skill to accompany the music soloist or performing group.

346-2 to 36 Opera Workshop. May be repeated for credit.

347-2 to 36 Music Theater Workshop. May be repeated for credit.

357-9 (3,3,3) Music History and Literature.

365-5 (1,1,1,1,1) Chamber Music. (a) Vocal; (b) String; (c) Woodwind; (d) Brass; (e) Percussion. Any part may be repeated twelve quarters.

411-9 (3,3,3) (a) Symphonic Literature. Development of the symphony and the symphonic poem to 1900; (b) **Choral Literature.** The literature of the larger vocal forms such as the cantata and oratorio to 1900; (c) **Chamber Music Literature.** Chamber music literature from the Renaissance to the present.

414-2 to 6 Collegium Musicum. Practicum in the preparation and performance of music from early times to the classical period. Prerequisite: Music Concentration and/or consent of the department.

420-1 to 3 Music Education Practicum. A shop-laboratory course dealing with the selection, adjustments, maintenance, and repair of musical instruments.

430-2 Stage Band Arranging. The study and analysis of jazz harmony, melody, and rhythm as applied to modern instrumentation. Workshop wherein arrangements are written and played. Prerequisite: 309a.

431-2 Organization and Development of the High School Stage Band. The relationship of the stage band to the overall music program; instrumentation; sources of music; types of presentation; rehearsal techniques; study of the effective application of dynamics, phrasing, intonation, and balance for improved performance. Prerequisite: 430.

441-6 (2,2,2) Counterpoint. (a) 16th Century Counterpoint. Special counterpoint and creative writing in the style of Palestrina and his contemporaries. Prerequisite: 105c; (b) 18th Century Counterpoint. Analysis and creative writing in the contrapuntal-harmonic technique of Bach and his contemporaries. Prerequisite: 105c; (c) Canon and Fugue. Analysis and creative writing of the larger imitative forms. Prerequisite: 441b.

444-6 (2,2,2) Intermediate Composition. Required of undergraduates with concentration in theory-composition, culminating with original works in contemporary idioms. Taught by individual instruction. Prerequisites: 312c and consent of department.

451-2 to 3 Teaching General Classroom Music.

453-3 Choral Materials and Techniques. Demonstration and performance of choral rehearsal procedures; developing tone, diction, blend, and balance; concert production; performance of selected choral materials appropriate for junior and senior high school. Prerequisite: consent of instructor.

454-3 Instrumental Materials and Techniques. Demonstration and performance of instrumental music rehearsal procedures; developing tone, articulation, blend, and balance; concert production; performance of selected materials appropriate for junior and senior high school. Prerequisite: consent of instructor.

455-2 to 6 Elementary Music Education Workshop.

461-2 Teaching Techniques and Materials for the Beginning and Intermediate Levels. Designed to meet the needs of applied students in the Bachelor of Music or Master of Music degree programs in which the problems of private studio teaching and college-level teaching are discussed.

462-2 Teaching Techniques and Materials for the Advanced Student. Prerequisite: 461.

465-9 (3,3,3) Development and Teaching of Strings. Place and function of string education in the elementary and secondary schools. Techniques of heterogeneous and homogeneous string teaching. Developing and sustaining interest in the string program. Resource aids. May be repeated for a total of 9 hours credit. Prerequisite: senior standing.

468-2 to 12 Music Productions. Study of the techniques involved in staging operas and musicals.

481-2 to 6 Readings in Music Theory.

482-2 to 6 Readings in Music History and Literature.

483-2 to 6 Readings in Music Education.

499-1 to 12 Independent Study. Opportunity for the capable student to engage in original investigations with faculty specialists. May be repeated for credit. Prerequisite: consent of instructor.

501-3 Introduction to Graduate Study in Music.

502-6 (2,2,2) Analytic Techniques.

503-3 to 4 Objective Research Techniques in Music Education.

504-3 Music of the Middle Ages and Renaissance.

- 505-3 Music of the Baroque Period.
- 506-3 Music of the Classical Period.
- 507-3 Music of the Romantic and Impressionistic Periods.
- 508-3 Music of the Twentieth Century.
- 509-3 The History and Philosophy of Music Education.
- 512-3 History of Opera.
- 522-3 Seminar: Music History and Literature.
- 531-2 to 9 Advanced Composition.
- 535-3 Contemporary Idioms.
- 540-1 to 4 Private Applied Music. (See Music 140.)
- 545-3 to 9 Philosophy of Music Theory.
- 550-3 Administration and Supervision of Music.
- 551-2 to 4 Organization and Administration of Music—Secondary.
- 553-3 Seminar in Choral Materials and Techniques.
- 554-3 Seminar in Choral Materials and Techniques.
- 556-2 to 6 Advanced Conducting.
- 560-2 to 3 Seminar in Music Education.
- 566-5 (1,1,1,1,1) Instrumental Ensembles.
- 567-5 (1,1,1,1,1) Vocal Ensembles.
- 568-2 to 12 Opera Workshop.
- 599-3 to 9 Thesis.

Philosophy

- 200-4 Types of Philosophy: An Introduction. Survey of the traditional branches and problems of philosophy, such as religion, metaphysics, epistemology, ethics, political theory, aesthetics, and history.
- 300-4 Elementary Metaphysics. Presentation of answers to the most general problems of existence. An attempt to unify all scientific approaches to reality through the laying down of common principles.
- 301-4 Philosophy of Religion. An analysis of problems in the psychology, metaphysics, and social effects of religion. Among topics discussed are the nature of mystical experience, the existence of God, and problems of suffering, prayer, and immortality.
- GSC 310-3 Religious Foundations of Western Civilization.
- GSC 311-3 Philosophies and Religions of India.
- GSC 312-3 Philosophies and Religions of the Far East.
- 320-4 General Logic. Terms, propositions, and reasoning. Logic as an instrument for the solution of problems in natural and social sciences.
- 340-4 Elementary Ethics and Politics. Problems of right and wrong for the individual and society.
- 355-4 Philosophy of Education. (See Educational Administration and Foundations 355.)
- 360-4 Philosophy of Art. The significance of art as a human activity, its nature and standards as seen in the problems of criticism, and the relation of art to other forms of knowledge.
- GSC or GSA 363-6 (3,3) Philosophy of Science.
- GSC 381-3 Greek Philosophy.
- GSC 382-3 Graeco-Roman and Medieval Philosophies.
- GSC 383-3 Early Modern Philosophy.
- GSC 386-3 Early American Philosophy.
- GSC 387-3 Recent American Philosophy.
- 389-3 Existential Philosophy. Surveys the two main sources of existentialism, the life philosophies of Kierkegaard and Nietzsche and the phenomenology of Husserl, and introduces the major philosophical themes of representative thinkers: J. P. Sartre, M. Heidegger, G. Marcel, and others.
- 406-4 Philosophy of Biology. Leading concepts of biological sciences: species, evolution, life, organism and part, etc. Abstract ideas of biology are related, wherever possible, to specific experiments recorded in scientific literature. Prerequisites: 300 or 320, and three laboratory or field courses in the biological sciences or consent of instructor.
- 415-3 Logic of the Social Sciences. Logical and epistemological examination of the social studies as types of knowledge. Basic problems in philosophy of science with major emphasis upon social science: relationship of theory to fact, nature of induction, nature of causal law, testability, influence of value

judgments, etc. Intended for students with considerable maturity in a social science or in philosophy.

420-4 Advanced Logic. A careful study of symbolic and discursive systems of logic: Aristotle, Spinoza, Boole, Whitehead, and Johnson. Prerequisites: 320 and consent of instructor.

426-6 (3,3) Mathematical Logic. (See Mathematics 426.)

428-3 Logic of the Exact Sciences. Critical study of the technical and philosophical problems associated with formal logic and its uses as a tool for model construction, for formalizations, reconstructions, and as an image of rational thought. Prerequisites: 426-6 or consent of instructor.

441-4 Philosophy of Politics. (Same as Government 441.) Some of the central problems of modern political life, such as sovereignty, world government, authority and consent, the relations of economics and social studies to political theory. Prerequisite: GSC 102 or 340 or consent of instructor.

443-4 Philosophy of History. Classical and contemporary reflections on the nature of history and historical knowledge as the basis for dealing with the humanities. Prerequisite: consent of instructor.

460-4 Advanced Philosophy of Art. The definition of art, its relations to science, culture, and morals; the various types of art defined. Familiarity with at least one of the fine arts is assumed. Prerequisites: GSC 207 or 360, and six courses in music, painting, sculpture, literature, or drama.

477-4 Latin American Philosophy. A survey of philosophic thought in Latin America from colonial times through nineteenth century positivism and the reactions against it, up to recent trends. Reading of original texts in English translations. Discussions and reports.

478-4 Seminar in Latin American Thought. (See Spanish 478.)

481-6 (3,3) 19th Century European Philosophy. (a) Kant, Schopenhauer, and Hegel; (b) Nietzsche, Bergson, the Utilitarians, and latter day idealists. May be taken singly and in any sequence.

482-3 Recent European Philosophy. Phenomenology, Positivism, Linguistic Analysis, and Existentialism.

490-2 to 12 Special Problems. Hours and credits to be arranged. Courses for qualified seniors and graduates who need to pursue certain topics further than regularly titled courses permit. Special topics announced from time to time. Students are invited to suggest topics for individual study and papers or for group study. Consent of instructor in all cases required.

497-12 (4,4,4) Honors. Topic varies. Enrollment restricted to undergraduates. Prerequisite: consent of department.

500-2 to 4 Seminar in Metaphysics.

501-2 to 4 Seminar in the Philosophy of Religion.

515-3 Theory of Nature.

530-2 to 4 Seminar in Theory of Knowledge.

540-3 Philosophy of Journalism.

555-4 Philosophy of Higher Education.

570-3 Seminar in American Idealism.

581-2 to 4 Seminar in Plato.

582-2 to 4 Seminar in Aristotle.

585-3 Seminar in British Empiricism.

586-2 to 4 Seminar in Spinoza.

587-3 Seminar in Hegel.

588-2 to 4 Seminar in Kant.

589-2 to 12, 590-2 to 12 General Graduate Seminar.

591-1 to 5 Readings in Philosophy.

599-2 to 9 Thesis.

600-3 to 48 Dissertation.

Physical Education—Men

100a-1 Methods of Teaching Swimming. Stresses techniques and methods of teaching applied to individual and group instruction. Basic strokes, underwater swimming, elementary diving, body and breath control, self support, and watermanship. Prerequisite for nonswimmers: audit beginner's swimming course.

100b-1 Methods of Teaching Golf. To prepare the student to teach the fundamental aspects of golf, with emphasis on adaptation to varied approaches in teaching.

100c-1 Methods of Teaching Tennis. Enables the student to acquire, through practice, the knowledge and skills necessary to teach this activity; includes consideration of desirable teaching materials to enhance instruction.

100d-1 Methods of Teaching Individual and Team Activities.

100e-1 Methods of Teaching Basic Rhythms.

100f-1 Methods of Teaching Exercise.

100g-2 Methods of Teaching Football. Individual instruction and practice in all the fundamentals of the game such as passing, kicking, blocking, tackling, running. Emphasis on effective methods of teaching and coaching.

100h-2 Methods of Teaching Basketball. Deals with individual and team fundamentals with special emphasis on passing, pivoting, shooting, dribbling, and variety of play patterns concerned with offense and defense. Basic methods of teaching and coaching.

100i-2 Methods of Teaching Baseball. Development of the practical skills and ability to teach and coach the techniques of batting, fielding, and playing the various positions in the game.

100j-2 Methods of Teaching Track and Field. Students gain practical experience as a foundation for learning the techniques of teaching the running and field events. Emphasis on individual analysis of movement for effective teaching.

100k-2 Methods of Teaching Gymnastics. To develop individual techniques in stunts and tumbling, calisthenics, parallel bars, side horses, trampoline, and high bar; fundamental skills, individual and group methods of instruction.

100m-2 Methods of Teaching Wrestling. Enables the student to master the fundamental skills of wrestling as well as to teach the individual and group methods of wrestling instruction.

101-2 Orientation Practicum in Physical Education. To introduce the student to his professional field, to enable him to secure a concept of the role of physical education in total education, and to crystallize his thinking in relation to vocational objectives. The significant historical aspects of physical education and its role in the broad cultural heritage in order to provide an interpretation and perspective to contemporary issues and developments. Freshman year.

170-2 Varsity Football.

171-2 Varsity Basketball.

172-2 Varsity Track.

173-2 Varsity Tennis.

174-2 Varsity Gymnastics.

175-2 Varsity Baseball.

176-2 Varsity Golf.

177-2 Varsity Swimming.

178-2 Varsity Cross Country.

179-2 Varsity Wrestling.

220-1 Recreational Activities and Games (Outdoor).

221-1 Recreational Activities and Games (Indoor).

303-5 Kinesiology. Study of joint and muscle action as a basis for the mechanical analysis of human physical movement executed in daily life and in physical education activities and sports. Prerequisites: Physiology 300, GSA 301.

305-2 Physical Education for the Atypical Student. Deals with the recognition of physical deviations from the normal student and with the provisions of special or modified physical education or recreational activities for such students. Prerequisites: Physiology 300 and GSA 301.

306-1 Advanced Stunts and Tumbling.

307-1 Advanced Apparatus.

317-1 Life Saving and Water Safety.

330a-2 Theory of Basketball Coaching. Different types of offense and defense studied; special emphasis given to early season conditioning and practice, offensive and defensive drills, team strategy, rules of the game. Prerequisite: 100h.

330b-2 Theory of Football Coaching. Deals with all phases of the game; offensive and defensive formation analyzed; strengths and weakness of each studied; various types of individual plays analyzed; rules discussed. Prerequisite: 100g.

331a-2 Theory of Swimming Coaching. Treatment of foundations and principles underlying coaching methods; comparative study differences in prevailing theories and methods; development of programs of training in pre-season, mid-season, and post-season of competition. Prerequisite: 100a.

331b-2 Theory of Baseball Coaching. A study of the strategy of the game; the

conduct of daily practice; analysis of the rules and their application to play situations. Also effective methods of coaching for best results. Prerequisite: 100i.

331c-2 Theory of Track and Field Coaching. Theoretical concepts dealing with the effective performance in running and field events; special emphasis on methods of training for such events; methods of organizing and conducting track and field meets. Prerequisite: 100j.

331d-2 Theory of Wrestling Coaching. Prepares students to develop program of wrestling; includes comparative knowledge of problems, techniques, materials, and systems in coaching wrestling as well as the organization and administration of the wrestling program. Prerequisite: 100m.

331e-2 Theory of Tennis Coaching. Theory of advanced strokes, strategy and tactics, scheduling and conducting matches, tournaments, exhibitions and clinics; officiating; organizing and promoting development programs. Prerequisite: 100c.

331f-2 Theory of Gymnastic Coaching. Deals with all phases of gymnastics; organization of dual meets, championships, and exhibitional teams; practice schedules; care and purchase of equipment; development and evaluation of exercises and routines; techniques of judging. Prerequisite: 100k.

335-2 Administration of Aquatics. The organization, administration, and supervision of aquatic programs in institutional and community swimming pools and camp waterfronts; the construction, operation, and maintenance of pools and waterfronts; personnel and program problems.

341-3 Principles of Physical Education. An understanding of the scientific foundations of physical education as implied by the accepted principles of psychology, physiology, sociology, biology, educational method of philosophy, anatomy, kinesiology, and related areas. Senior year.

345a-1 Officiating of Fall Sports. Interpretation of rules in football, cross country, and soccer; techniques of officiating; code of ethics, for officials and players; problems of officiating. Officiating practice required.

345b-1 Officiating of Winter Sports. Interpretation of rules in basketball, wrestling, and swimming; techniques of officiating; code of ethics for officials and players; problems of officiating. Officiating practice required.

345c-1 Officiating of Spring Sports. Interpretation of rules in baseball, track and field, tennis and golf; techniques of officiating; code of ethics for officials and players; problems of officiating. Officiating practice required.

350-Methods and Materials for Teaching Physical Education Activities in the Elementary School. The organization and conduct of the program with special emphasis on program planning, evaluation of materials, observation and practice in creative rhythms, singing games, folk dancing, and games of low organization. Two hours lecture; 2 hours laboratory.

354-3 Organization and Administration of Physical Education and Athletics. The organization and conduct of the total program of physical education including interscholastic athletics based upon accepted educational policies and practices. Emphasis on problems of administration.

355-2 Assisting Techniques.

370-3 to 4 Tests and Measurements in Physical Education. Measurements as an aid in determining student needs, curriculum construction, teaching effectiveness, and the attainment of educational objectives. Includes the selection, administration, and interpretation of tests. Three hours lecture; 2 hours laboratory.

376-3 Care and Prevention of Athletic Injuries. The theoretical and practical methods of preventing and treating athletic injuries; techniques of taping and bandaging; emergency first aid; massage; use of physical therapy modalities. Two hours lecture; 2 hours laboratory. Prerequisite: Physiology 300 and GSA 301.

377-1 Horseback Riding.

378-1 Canoeing and Boating.

400-4 Evaluation in Physical Education. Historical background of measurement in physical education; selection and evaluation of contemporary testing devices; structure and use of tests; administering the testing program; and interpretation and application of results. Fulfills the tests and measurements course requirements for the Master of Science degree.

402-2 Organization and Administration of Intramural and Extramural Activities. Planning intramural programs of sports; planning and coordinating extramural activities commonly associated with physical education.

403-4 The Adaptation of Physical and Recreational Activities to the Handi-

capped Individual. Recognition of postural deviations; devising and planning programs for the physically atypical.

404-2 to 4 The Teaching of Sports. Teaching methods, officiating, organization, safety precautions, and selecting equipment for sports.

406-4 Basic Concepts of Physical Education. The place of physical education in the school program, and the concepts underlying the program. (Required of all students not presenting the undergraduate courses 354 or 340.)

407-4 Scientific Basis of Athletic Training.

408-2 to 4 Workshop: Physical Fitness—Its Role and Application in Education. Improvement of programs and teaching techniques involved in the development of various aspects of physical fitness. Units on postural status; body weight control; tension factors, causes, and control; exercise tolerance; and general body mechanics and control.

416-4 Current Theories and Practices in the Teaching of Dance. (Same as Physical Education—Women 416 and Theater 416.) History and evolution of dance; place of dance in education.

420-4 Physiological Effects of Motor Activity. The general physiological effects of motor activity upon the structure and function of body organs; specific effect of exercise on the muscular system. Prerequisite: Physiology 209 or equivalent.

475-2 to 4 Individual Research. (Selected areas with 2 to 4 hours in each.)

500-4 Techniques of Research.

501-4 Curriculum in Physical Education.

502-4 Foundations of Motor Skills.

503-4 Seminar in Physical Education.

504-4 Problems in Physical Education.

508-3 Administration of Interschool Athletics.

509-4 Supervision of Physical Education.

510-4 (2,2) Motor Development.

511-2 Analysis of Human Physical Movement.

520-4 Metabolic Analysis of Human Activity.

525-1 to 6 Readings in Physical Education.

599-1 to 9 Thesis.

600-2 to 48 Dissertation.

Physical Education—Women

Basic Movement: 113.

Team Sports: 114, 224, 244.

Aquatics: 211, 271, 316, 317, 378.

Individual Sports: 216, 218, 228, 229, 328, 377.

Dance: 212, 222, 242, 272, 374, 376.

Officiating: 311.

Teaching Physical Education in Elementary School: 319, 350.

Teaching Physical Education in Secondary School: 301, 304, 360, 361, 362, 363.

Camping: 348.

Professional Courses: 303, 308, 351, 352, 353, 354, 355, 370.

113-1 Basic Movement.

114-1 Speedball. Techniques and team tactics.

211-1 Intermediate Swimming. Prerequisite: pass beginning swimming test.

212-1 Beginning Contemporary Dance. Fundamentals of movement and composition. A basic course culminating with experiences in contemporary dance composition.

216-1 Archery.

218-1 Intermediate Fencing. Prerequisite: GSE 114m.

222-1 Folk Dancing.

224-1 Basketball.

228-1 Tennis.

229-1 Intermediate Golf. Prerequisite: GSE 114e.

240-2 to 24 Theory and Technique of Contemporary Dance. Study of contemporary dance including muscular sensitivity, control of the dance instrument, exploration of time, space, shape, and motion leading to the development of aesthetic perception.

242-1 Square and Social Dance.

244-1 Hockey.

271-1 Sailing.

272-1 Tap Dance.

273-1 to 6 Dance Workshop.

301-2 Techniques of Teaching Recreational Sports. Analysis and methods of teaching badminton, deck tennis, volleytennis, table tennis, and other recreational sports.

303-5 Kinesiology. The mechanical analysis of physical education activities through the study of joint and muscle action. Prerequisite: Anatomy.

304-10 (2,2,2,2,2) Techniques of Teaching Sports. Methods of teaching, construction of daily lesson plans, and analysis of techniques. (a) soccer and volleyball; (b) hockey and speedball; (c) basketball; (d) tumbling, stunts, and gymnastics; (e) softball and tennis. Assistantship required during a,b,c,d, and e.

309-5 Methods of Teaching Dance. A course dealing with each of the various types of dance, including fundamental progressions, and composition in each type. Prerequisites: 212, 222 or equivalent.

311-2 (1,1) Theory of Officiating Basketball. Study of requirements of a nationally-rated official as set up by the Division for Girls' and Women's Sports.

312-4 History and Philosophy of Dance. The history and development of dance from primitive to contemporary forms.

313-4 Dance Production. Advanced dance techniques and choreography. Choreographic emphases including staging and production of dance. Prerequisite: GSE 113e or consent of instructor.

316-1 Advanced Swimming. Prerequisite: 211.

317-1 Life Saving and Water Safety. Techniques of Red Cross Life Saving and Water Safety. Prerequisite: pass intermediate swimming test.

319-4 Teaching Elementary School Group Activities. Study of age characteristics; planning of activity programs for all grade levels; techniques of teaching activities for elementary grades; fulfillment of the Illinois requirements for elementary school teachers. Prerequisite: Psychology 301 or Guidance 305.

328-1 Intermediate Tennis. Prerequisite: 228.

348-2 to 4 Camp and Community Leadership. Fundamentals of scouting, camping, and counseling. A weekend camping trip required.

350-5 Materials and Methods in Elementary Schools. For supervisors and teachers of physical education. Curriculum planning based on grade characteristics and educational philosophy, presentation of skills including skill tests, lead-up games, stunts and tumbling, games of low organization, creative rhythms, singing games, and folk dance.

351-4 Recreation and Physical Education for Atypical Handicapped Individuals. Techniques of physical examination; postural defects and their correction; activities suitable for the atypical; program building; and correlation of this program with the physical education curriculum.

352-2 History of Physical Education. A study of the background and development of physical education.

353-4 Organization and Administration of Physical Education. Criteria for the selection of activities; the organization of classes, the policies and the personnel; the physical plant and its upkeep; the planning, utilization, and care of equipment in the physical education program. Prerequisite: 354.

354-2 Principles of Physical Education. The scientific foundations applied to physical education.

355-3 Techniques of Teaching Swimming. Methods of teaching, analysis of strokes, and devices for teaching swimming and life saving. Prerequisite: 211 or equivalent.

360-4 The Physical Education Program for Girls in Junior and Senior High Schools (workshop). Program planning, source materials, and selected physical activities.

361-1 to 4 The Teaching of Team Sports and Dance to Junior and Senior High School Girls (workshop). Techniques of teaching volleyball, basketball, soccer, and dance.

362-1 to 4 Teaching Basic Activities to Junior and Senior High School Girls. Teaching badminton, softball, basic movement, and recreational games.

363-1 to 4 Teaching a Sports Program for High School Girls (workshop). Designed for teachers in service who have provisional certificates.

369-4 Improving Teaching Through Testing (workshop). Teaching aids, diagnostic measures, practice and standardized tests for a variety of physical skills. Principles of programmed learning applied to psychomotor tasks.

370-3 to 4 Tests and Measurements in Physical Education. The theory of

measurement in health and physical education, the selection and administration of appropriate tests, and the interpretation of results. Projects required.

374-1 Advanced Folk Dance.

377-1 Horseback Riding (fee required).

378-1 Canoeing and Boating. Prerequisite: pass swimming test (fee required).

379-3 Preclassic Dance Forms. (Same as Theater 379.) Lectures and readings in dance of the 16th, 17th, and early 18th centuries. Study and execution of representative preclassic dances. Prerequisite: 230 or 240.

400-4 Evaluation in Physical Education. Historical background of measurement in physical education; selection and evaluation of contemporary testing devices; structure and use of tests; administering the testing program; and interpretation and application of results. Fulfills the tests and measurements course requirements for the Master of Science degree.

402-3 Organization and Administration of Intramural and Extramural Activities. Planning intramural programs of sports; planning and coordinating extramural activities commonly associated with physical education.

403-4 The Adaptation of Physical and Recreational Activities to the Handicapped Individual. Recognition of postural deviations; devising and planning programs for the physically atypical.

404-4 The Teaching of Sports. Teaching methods, officiating, class organization, analysis of skills, and application of the principles of motor learning.

406-4 Basic Concepts of Physical Education. The place of physical education in the school program, and the concepts underlying the program. (Required of all students not presenting the undergraduate courses 354 or 340.)

407-4 Scientific Basis of Athletic Training. The theoretical and practical methods of preventing and treating athletic injuries.

408-2 to 4 Physical Fitness—Its Role and Application in Education. Improvement of programs and teaching techniques involved in the development of various aspects of physical fitness. Units on postural status; body weight control; tension factors, causes, and control; exercise tolerance; and general body mechanics and control.

416-4 Current Theories and Practices in the Teaching of Dance. (See Physical Education—Men 416.)

420-4 Physiological Effects of Motor Activity. The general physiological effects of motor activity upon the structure and function of body organs; specific effect of exercise on the muscular system. Prerequisite: Physiology 209 or equivalent.

444-2 to 8 Contemporary Dance Workshop. Dance technique and theory, composition, improvisation, and production. Advanced study of the problems of choreography and production in their presentation as theater. Public performance is required. Prerequisite: 1 year of technique and theory or equivalent.

475-2 to 4 Individual Research. The selection, investigation, and writing of a research topic under supervision of an instructor. (a) dance; (b) kinesiology; (c) measurement; (d) motor development; (e) physiology of exercise, and (f) history and philosophy.

500-4 Techniques of Research.

501-4 Curriculum in Physical Education.

502-4 Foundations of Motor Skills.

503-4 Seminar in Physical Education.

504-4 Problems in Physical Education.

508-3 Administration of Interschool Athletics.

509-4 Supervision of Physical Education.

510-4 (2,2) Motor Development.

511-2 Analysis of Human Physical Movement.

525-1 to 6 Readings in Physical Education.

599-1 to 9 Thesis.

600-2 to 48 Dissertation.

Physics

111-9 (3,3,3) College Physics. Designed for all students of the sciences but restricted to freshmen who can satisfy the mathematics prerequisite at the beginning of the fall quarter. Prerequisite: Advanced standing in Mathematics 111a.

- 112-3 (1,1,1) College Physics Laboratory.** Three hours of laboratory per week. Prerequisite: concurrent enrollment in 111.
- 206-9 (3,3,3) College Physics.** Designed to meet preprofessional requirements and the needs of all students in the sciences, except physics and engineering. Must be taken in a,b,c or a,c,b sequence. Prerequisite: Mathematics 111b.
- 207-3 (1,1,1) College Physics Laboratory.** One 3-hour laboratory period per week, taken concurrently with 206.
- 211-15 (5,5,5) University Physics.** A basic course using calculus for science, mathematics and pre-engineering students. Laboratory. (a) Mechanics; (b) Light, sound and heat; (c) Electricity and magnetism. Must be taken in a,b,c or a,c,b sequence. Prerequisite: Mathematics 150b (or equivalent) or concurrent enrollment.
- 300-5 University Physics IV.** (Same as Applied Science 300.) A continuation of 211 covering modern physics. Three lecture, two recitation and two laboratory hours per week. Prerequisite: 111, 206, or 211.
- 301-3 Mechanics.** Intermediate theoretical particle mechanics using vector analysis. Prerequisites: 111a, 206a, or 211a; Mathematics 305a, or concurrent enrollment, or consent of instructor.
- 304-3 Thermodynamics.** A macroscopic study of the thermal properties of matter and the laws of thermodynamics. Prerequisites: 111b, 206b, or 211b and Mathematics 252b.
- 305-6 (3,3) Introduction to Electric Theory.** Vector treatment of the theory, electrostatics in vacua and in matter, steady currents, electromagnetism and quasi-steady currents. Prerequisites: 111, 206, or 211; Mathematics 305a, or concurrent enrollment, or consent of instructor.
- 307-2 Electrical Measurements.** A laboratory course illustrating basic electrical and magnetic properties and emphasizing precision in their measurement. Prerequisite: 305b or concurrent enrollment.
- 309-3 Electric Circuits.** Electron tube and transistor circuit principles with applications to radio receivers, transmitters, and power supplies. Prerequisite: 111c, 206c, or 211c.
- 310-3 Light.** Light propagation and optical instruments: reflection, refraction, interference, diffraction, and polarization of light. Prerequisite: 111b, 206b, or 211b.
- 311-1 Optics Laboratory.** Advanced experiments in geometrical and physical optics. Three laboratory hours per week. Prerequisite: 310 or concurrent enrollment.
- 312-2 Electric Circuits Laboratory.** Laboratory studies of properties of electron tubes and transistors and basic circuits employing them in power supplies, amplifiers, and oscillators. Prerequisite: 309.
- 401-3 Mechanics.** Rigid body mechanics, normal coordinates, mechanics of continuous media, and advanced principles. Prerequisites: 301, Mathematics 455c.
- 404-6 (3,3) Physical Electronics.** Kinetic theory and statistical mechanics with applications to electronic conduction in solids, vacuum, and gases, electron emission and ballistics; Bose-Einstein and Fermi statistics, electron theory of metals; semiconductors; quantum physical phenomena of the solid state. Prerequisite: 304, 305, 401 (or consent of instructor).
- 405-3 Electronics.** Advanced theory and application of vacuum tubes and semiconductor devices as circuit elements in power supplies, oscillators, amplifiers, and shaping circuits. Prerequisites: 305 and 309 or consent of instructor.
- 410-6 (3,3) Introduction to Electromagnetic Wave Theory.** A theoretical study of electromagnetic wave generation, propagation, and detection, with applications to microwaves and modern optics. Prerequisites: 305, 310.
- 415-12 (3,3,3,3) Modern Physics.** Elements of wave mechanics, special relativity, atomic, molecular, and nuclear physics. Prerequisites: 301, 305, Mathematics 455c (or consent of instructor).
- 418-1 to 4 Modern Physics Laboratory.**
- 420-2 to 5 Special Projects.** Each student is assigned to a definite investigative topic. Adapted to advanced undergraduate students. Prerequisite: 301, 305.
- 447-5 Topics in Classical Physics.** Assists experienced teachers to improve their understanding of classical physics and the strategy of presenting it. Emphasis on demonstration of phenomena as basic strategy in the introduction of new material. Attention given to the design of demonstration apparatus. Related laboratory experience is an integral part of the course. Prerequisite: consent of department.

448-5 Topics in Modern Physics. Assists experienced teachers to extend their understanding of modern physics. Lectures and demonstrations aim at improvement of the means of presenting the ideas of modern physics. Related laboratory experience is an integral part of this course. Prerequisite: consent of department.

449-3 (1,1,1) In-Service Institute for Teachers of Physics. A series of lectures, demonstrations, discussions, and films to assist teachers of high school physics in meeting their classroom problems and responsibility. Prerequisite: consent of department.

504-12 (4,4,4) X-Ray Diffraction and Lattice Dynamics.

510-9 (3,3,3) Classical Mechanics.

511-9 (3,3,3) Mathematical Methods of Physics.

520-2 to 5 Special Projects.

530-9 (3,3,3) Electromagnetic Theory.

531-9 (3,3,3) Quantum Mechanics.

532-9 (3,3,3) Advanced Quantum Mechanics.

540-9 (3,3,3) Nuclear Physics.

550-9 (3,3,3) Atomic and Molecular Spectra.

560-9 (3,3,3) Statistical Mechanics.

570-9 (3,3,3) Solid State Physics.

575-1 to 4 Graduate Seminar.

580-3 to 6 Selected Topics in Physics.

590-1 to 9 Thesis.

Physiology

200-3 Occupational Therapy Orientation. A survey and history of the field. The uses, techniques and philosophies of occupational therapy and its role in the treatment of disease and in rehabilitation. Three hours lecture per week.

300-4 to 5 Human Anatomy. Lectures, demonstrations, and periodic observation of the prosected body. Lectures confined to bones, joints, muscles, and nerves. Primarily for students in physical education. Four hours lecture per week. One section, 300n, is reserved chiefly for nursing students. All bodily systems are reviewed. A 3-hour laboratory is substituted for one of the lectures.

GSA 301-4 Principles of Physiology.

GSA 302-3 Psychobiological Foundations of Behavior.

315-15 (5,5,5) Advanced College Physiology. Lectures emphasize mammalian and human physiology whereas the laboratory involves function throughout the vertebrate classes. (a) Blood, circulation, and respiration; (b) digestion, excretion, and endocrines; (c) muscles, nervous system, and sense organs. Three hours lecture and 4 hours laboratory per week. Prerequisite: GSA 201c and 5 hours of chemistry.

410-15 (5,5,5) Advanced Anatomy. Dissection of the human body. Primarily for students with a concentration in physiology and other biological sciences. Not a premedical course. Two hours lecture, 6 hours laboratory.

414-4 Anatomy and Physiology of Speech and Hearing Mechanisms. The anatomy and physiology of the vocal apparatus. Primarily for students with a concentration in speech pathology. Three hours lecture, 2 hours laboratory.

415-8 (4,4) Experimental Animal Surgery. Preparation of animals for surgery. Anesthesia, instruments, care of animal quarters, selected exercises. Two hours lecture, 4 hours laboratory. Part b may be elected independently of a.

417-6 (3,3) Principles of Pharmacology. Action of drugs and other chemical substances upon the living organism. Physiological and biochemical events resulting from the action of drugs. Pharmacodynamics, chemo-therapy, toxicology, and therapeutics. Prerequisites: basic courses in chemistry and biological sciences. Two hours lecture, 2 hours laboratory.

430-12 (4,4,4) Cellular Physiology. The nature and mechanism of the living cell. Chemical and physical aspects of vital activity. Required for graduate majors in physiology. Recommended for students interested in biochemistry and biophysics. Three hours lecture, 2 hours laboratory.

433-4 Comparative Physiology. Fundamental physiological processes and the manner in which they vary in various groups of animals. Recommended for a concentration in physiology and for students in other biological sciences. Three hours lecture, 2 hours laboratory.

440-3 Electron Microscopy. Lectures, demonstrations, and practical experience

with the electron microscope. Fundamentals of specimen preparation. Open to students with advanced knowledge of any natural or physical sciences. Two hours lecture, 2 hours laboratory.

450-4 to 16 Special Problems in Physiology. Selected problems in various aspects of physiology. Eight hours laboratory. Prerequisite: consent of department.

460-12 (4,4,4) Mammalian Physiology. Function and biochemical organization in mammals, especially man. Open to students with adequate courses in biological sciences and chemistry. (a) blood, circulation, respiration; (b) digestion, excretion, endocrines; (c) nervous system sense organs. Three hours lecture, 4 hours laboratory.

465-6 (3,3) Biophysics. Application of the analytic methods of the physical sciences to physiology. Molecular aspects of control systems governing vital processes. Prerequisite: one year physics.

471-9 (3,3,3) Biophysical Instrumentation. Principles of electronics, accenting solid state circuit designs that apply to biophysics. Includes circuit construction for biophysical instruments. Prerequisite: 1 year of physics and consent of instructor.

500-1 to 9 Advanced Seminar.

519-3 Experimental Pharmacology.

520-9 (3,3,3) Physiological Technics.

521-1 to 6 Readings in Current Physiological Literature.

540-8 (4,4) Advanced Comparative Physiology.

550-3 Radiation Biology.

565-3 Biophysics.

599-3 to 9 Thesis.

600-4 to 36 Doctoral Dissertation.

Plant Industries

109-4 Principles of Field Crop Production. Plant development and production of important field crops emphasizing crops of the midwestern United States, plant classification and botanical structure; essential plant processes; crop ecology; crop improvement; seeds and seeding; crop production practices. Field trip.

259-3 to 60 Technology in Agriculture. This is a designation for credit earned in technical or occupational proficiency when credit is to be established (by departmental evaluation) for work above the high school level. Prerequisite: transfer from two-year program.

264-4 General Horticulture. General principles of plant propagation, vegetable growing, fruit growing, landscape gardening, and floriculture. Field trip. Seniors cannot enroll without consent of department.

301-5 Soil Science for Foresters. (Same as Forestry 301.) Basic concepts of soil formation; classification, characteristics, chemistry, physics, and microbiology, and their relation to plant growth. Experiments familiarize the student with the practical applications of the theories presented. Prerequisite: GSA 101b.

302-3 to 4 Advanced Soil Science. Basic principles of soil physics, chemistry and fertility as they relate to plant production. Prerequisite: 103 or 301.

304-3 Landscape Gardening. Land selection, landscape design and development for home, farm, and public sites for area adaptation. Field trips.

306-5 (3,2) Soil and Water Conservation. (Same as Agricultural Industries 306.) (a) The study of the theoretical factors affecting soil erosion and excessive water run-off, including practices of water management and soil conservation. Prerequisite: one course in soils; (b) Laboratory. Practical structure methods of controlling water run-off and soil erosion. Prerequisite: 306a or concurrent enrollment.

309-4 Field Crop Production. Principles of growth and production of common field crops: cereals, forages, and miscellaneous crops; growth characteristics; adaptation; improvement; culture; diseases and insects and their control; utilization. Field trip. Prerequisite: GSA 201b.

310-4 Morphology of Crop Plants. Cellular structure, vegetative and reproductive development, and gross morphology of the major crop plants. Utilization of crop plant parts. Prerequisite: GSA 201b or equivalent.

315-4 Plant Genetics. (See Botany 315.)

- 316-4 Small Fruits.** Production of strawberries, brambles, grapes, and miscellaneous small fruits. Field trips. Prerequisite: GSA 201b or concurrent enrollment or consent of department.
- 317-4 Insect Pests and Their Control.** (See Zoology 316.)
- 324-4 Orchardring.** Commercial tree fruit growing, physiology, orchard practices, pest control, harvesting, and marketing. Field trips. Prerequisites: 264, GSA 201b or concurrent enrollment.
- 344-4 General Floriculture.** Principles governing production, timing, and marketing of the major floricultural crops grown in the greenhouse. Field trips. Prerequisite: 264.
- 347-3 Garden Flowers.** Culture, identification, and use of flowering bulbs, annuals, biennials, and perennials in the home flower garden. Prerequisite: GSA 201b or consent of department.
- 359-3 to 5 Intern Program.** Work experience program in either an agricultural agency of the government or agri-business. Prerequisite: junior standing.
- 381-1 to 2 Agricultural Seminar.** (Same as Agricultural Industries 381, Animal Industries 381, and Forestry 381.) Discussion of problems in agriculture. Limited to senior students.
- 390-1 to 6 Special Studies in Plant Industries.** Assignments involving research and individual problems. Prerequisite: consent of chairman.
- 401-4 Soil Physics.** Physical properties of the soil; factors affecting them, their measurements, evaluation, and influence in determination of soil productivity. Prerequisite: 301.
- 402-4 Soil Morphology and Classification.** Morphology and soil formation, description and identification of soil profiles, classification of soils, techniques of soil mapping, and interpretation of survey data. Field trips cost approximately \$6.00. Prerequisite: 301.
- 404-3 Turf Management.** Principles and methods of establishing and maintaining turf for homes, recreational areas, and public grounds. Study of basic plant and soil materials, fertility, culture, water management, and pest control as related to turf-grasses in variable environments. Field trips. Prerequisite: GSA 201b or equivalent; course in soils recommended.
- 406-4 Radioisotopes, Principles and Practices.** Basic characteristics of radioactive materials and detection systems. Application of radioisotope technology to biologically related sciences, such as agriculture; includes requisite health physics safety practices. Prerequisite: Biochemistry, or physiology, or consent of department.
- 407-5 (3,2) Fertilizers and Soil Fertility. (a) Lecture.** The uses of fertilizer material; effects of various fertilizers on soils and crops; fertility maintenance and soil management. Prerequisite: one course in soils; **(b) Laboratory.** The laboratory study of the chemistry and fertility of soils. Parallels the theoretical presentation given in 407a. Prerequisite: 407a or concurrent enrollment.
- 408-4 World Crop Production Problems.** Ecological and physiological factors influencing production in various areas of the world. Natural limitations on crop production. Non-agricultural factors influencing world crop output.
- 415-3 Plant Breeding.** Practical breeding of horticultural, agronomic, and forest plants. Prerequisite: any course in genetics, or consent of the instructor.
- 418-4 Weeds and Their Control.** Losses due to weeds, weed identification and distribution, methods of weed dissemination and reproduction. Mechanical, biological, and chemical control of weeds. State and federal legislation pertaining to weed control herbicides. Herbicide commercialization. Field trips. Prerequisite: GSA 201b or concurrent enrollment.
- 419-4 Forage Crop Management.** Forage crop production and utilization; forage crop characteristics, breeding, and ecology; grasslands as related to animal production, soil conservation, crop rotation, and land use. Field trip costs approximately \$3.00. Prerequisite: GSA 201b.
- 424-5 (3,2) Soil Microbiology. (a) Lecture.** A study of the numbers, characteristics, and biochemical activities of soil micro-organisms, with particular consideration of their role in the transformations of organic matter, nitrogen, and minerals as related to soil fertility and management. Prerequisite: one course in Microbiology or soils; **(b) Laboratory.** Experiments designed to determine numbers, and to study the characteristics and biochemical activities of the soil microflora as related to fertility. Prerequisites: 424a, or concurrent enrollment, Microbiology 301.
- 437-4 Commercial Vegetable Production.** Culture, harvesting, and marketing of commercial vegetables. Field trips cost approximately \$3.00. Two hours laboratory. Prerequisite: 264 or consent of department.

438-3 Advanced Studies in Vegetable Crops. Genetics, morphological, and physiological factors influencing the production of vegetable crops. Offered in alternate years. Prerequisite: 264, Botany 320 or consent of department.

440-3 Plant Propagation. Fundamental principles of asexual and sexual propagation of horticultural plants. Actual work with seeds, cuttings, grafts, and other methods of propagation. Prerequisites: 264, GSA 201b or consent of department.

506-2 Laboratory Methods for Radioisotopes.

507-3 Advanced Soil Fertility.

518-4 Principles of Herbicide Action.

520-1 to 6 Readings.

575-1 to 6 Research.

581-1 to 6 Seminar.

590-1 to 4 Special Studies in Plant Industries.

599-1 to 9 Thesis.

President's Scholars

151-12 (3,3,3,3) Honors Seminar. Prerequisite: President's Scholar status.

251-12 (3,3,3,3) Honors Seminar. Prerequisite: President's Scholar status.

351-9 (3,3,3) Honors Seminar. Prerequisite: President's Scholar status.

399-2 to 6 Honors Paper. Preparation of honors paper under joint supervision of President's Scholar program and a faculty member of a subject-matter department. Prerequisite: consent of department and President's Scholars Program.

499-3 to 9 Undergraduate Honors Thesis. Preparation of honors thesis under supervision of a committee consisting of one or more faculty members in appropriate disciplines and a representative of the President's Scholar Program. Prerequisite: consent of department and the President's Scholars Program Committee.

Psychology

211-8 (4,4) Principles and Methods of Psychology. An introduction to the experimental methods utilized in the study of behavior. (a) The application of methods to the study of sensation, perception, and learning; (b) the analysis and interpretation of data. Lecture and laboratory. Prerequisite: GSB 201c.

301-4 Child Psychology. A study of the biological and psychological development of the child from birth through puberty, and of relevant research methods and results. Prerequisite: GSB 201c.

GSA 302-3 Psychophysiological Foundations of Behavior.

303-4 Adolescent Psychology. Examines the physical and psychological development of the adolescent, and the relevance of childhood development to adolescent problems. Prerequisite: GSB 201c.

304-4 Psychology of Maturity and Old Age. A consideration of psychological factors in later maturity and old age and their concomitant problems, both individual and societal. Prerequisite: GSB 201c.

305-4 Psychology of Personality. A study of the inferred patterns underlying an individual's unique reactions to his environment. Investigates the motivations, development, and methods of changing these patterns, and how personality processes are studied. Prerequisite: GSB 201c.

307-4 Social Psychology. Introduction to the study of the individual's interaction with his social environment. Considers problems of social learning, attitude formation, communication, social influence processes and group behavior. Prerequisite: GSB 201c.

311-4 Experimental Psychology: Learning. Investigates the processes governing behavioral change. Experimental studies of conditioning, memory, and forgetting will be emphasized. Laboratory work will include the design and conduct of experiments with humans and animals. Lecture and laboratory. Prerequisite: 211a,b.

312-4 Experimental Psychology: Perception. Investigates the variables influencing an organism's stimulation by his environment. The structure and operation of the sense organs as well as complex perceptual phenomena are examined in lectures and laboratory. Prerequisite: 211a,b.

313-4 Experimental Psychology: Motivation. An examination of both biologi-

cal and social variables influencing the activation, direction, and maintenance of behavior. Laboratory work will examine the effects of motivation upon behavior. Lecture and laboratory. Prerequisite: 211a,b.

314-4 Experimental Psychology: Comparative and Physiological. An examination of the physiological and phylogenetic variables affecting behavior. The laboratory will involve work with different types of organisms, emphasizing physiological concomitants of behavior. Lecture and laboratory. Prerequisite: 211a,b.

320-4 Industrial Psychology. A study of the use of psychological methods in the analysis of human factors problems in business and industry. Prerequisite: GSB 201c.

322-4 Personnel Psychology. A study of the use of psychological methods in the selection, placement, and evaluation of personnel in business and industry. Prerequisite: GSB 201c.

323-4 Psychology of Employee Relations. Job satisfaction and morale, psychological aspects of labor relations, interviewing methods, and human relations training. Lecture. Prerequisite: GSB 201c.

399a-1 to 9, 399b-1 to 12 Research and Investigation: Honors. Intensive study in selected areas for students qualified for honors work in psychology. A research paper or equivalent will be required. Prerequisite: consent of chairman. (a) For juniors. (b) For seniors.

404-4 Theories of Perception. An examination of the different theories concerned with an organism's sensory contact with his environment. Physiological, social, and organizational theories of perception will be considered. Prerequisite: 312 or consent of instructor.

407-4 Theories of Learning. Consideration of contemporary theories and their relation to experimental data. Prerequisite: 211a, b or consent of instructor.

408-4 Theories of Motivation. Systematic analysis of the concept of motivation with emphasis on its utility as an explanatory component of general behavior theory. Prerequisite: 211b or consent of instructor.

421-4 Psychological Tests and Measurements. Principles of psychological measurement, including errors of measurement, techniques for estimating reliability and validity, techniques of test construction, and problems in assessment and prediction. The laboratory will include the use of selected instruments. Lecture and laboratory. Prerequisite: 8 hours of psychology.

425-4 Mathematical Psychology. Survey of mathematical models of behavior, elementary models of learning, perception, and decision making. Prerequisite: Mathematics 480a, 421a, 410a or consent of instructor.

431-4 Psychopathology. Classification, description, etiology and treatment of the disorders of personality organization and behavioral integration. Observations in a state mental hospital setting. Prerequisite: 305 or consent of instructor.

440-4 Theories of Personality. A review and critical evaluation of major personality theories and their supporting evidence. Prerequisite: 305 or consent of instructor.

451-4 Advanced Child Psychology. An examination of the concepts, methods, and problems of human development with consideration of both its psychological and psychosocial aspects. Prerequisite: 211b, 301 or consent of instructor.

459-4 Theory and Practice in the Preschool. Designed for those in nursery education and related fields. Examines the variety of topics and provides lectures, demonstrations, and practicum experience in the child study cooperative nursery. Prerequisite: consent of instructor.

461-4 Advanced Social Psychology. Examines current areas of interest in the study of social behavior: language behavior, communication, social influence, attitude change, interpersonal perception, etc. Emphasis is on the individual in the social context. Prerequisite: 307 or consent of instructor.

465-4 Group Dynamics and Individual Behavior. Examination of research and theory in the area of small-group interaction. Examines such topics as group structure and function, group-solving, leadership, etc. Prerequisite: 307 or consent of instructor.

490-1 to 16 Independent Projects. Independent readings and projects in psychology. Prerequisite: consent of instructor and chairman.

495-1 to 18 Seminar: Selected Topics. Varied content. To be offered from time to time as need exists and as faculty interest and time permit. Prerequisite: consent of department.

509-4 Instrumentation in Behavioral Science.

510-4 History and Systems.
512-4 Sensory Processes.
514-8 (4,4) Physiological Psychology.
516-4 Learning Processes.
522-4 Research Design and Inference III.
523-2 Research Seminar.
524-4 Multivariate Methods in Psychology.
525-4 Mental Test Theory.
526-4 Experimental Design in Psychology.
530-4 Personality Theory and Dynamics.
531-2 to 4 Advanced Psychopathology.
532-2 Experimental Approaches to Personality.
533-3 Experimental Approaches to Psychopathology.
536-4 Fundamentals of Counseling.
537-4 Counseling and Psychotherapy.
538-2 Group Psychotherapy.
539-4 Experimental Approaches to Psychotherapy.
541-4 Psychodiagnostics I.
543-6 (4,2) Psychodiagnostics II.
545-2 Psychodiagnosis III.
547-4 Assessment Procedures in Counseling.
552-4 Experimental Child Psychology.
554-2 Developmental Theory.
556-2 Psychological Treatment of the Child.
561-4 Social Influence Processes.
562-4 Observational Techniques and Content Analysis.
564-4 Communication and Group Behavior.
571-4 Industrial Motivation and Morale.
572-4 Industrial Training.
573-2 Selection and Placement.
574-2 Psychology of Industrial Relations.
576-2 to 4 Human Engineering.
579-4 Animal Behavior.
581-4 Psychophysical Methods.
590-1 to 16 Readings in Psychology.
591-1 to 36 Research in Psychology.
593-1 to 18 Practicum in Psychology.
595-1 to 18 Advanced Seminar.
598-2 Ethical and Professional Problems in Psychology.
599-1 to 9 Thesis.
600-1 to 45 Dissertation.

Radio-Television

161-4 **Radio-Television Speaking.** Oral and visual speaking techniques for various radio and television speaking situations such as studio announcing, musical and dramatic programs, interviews and newscasts. Extensive microphone and on-camera practice. Audio and video tape recording sessions, as well as radio and TV studio facilities for practice and performance.
251-3 **Survey of Broadcasting.** Examinations of the history of the American system of broadcasting, including discussions of the industry, network structure, and local station, organization and economics. Similar examination of various systems of foreign broadcasting.
252-3 **Broadcast Production Analysis.** A comprehensive examination of requirements and techniques of effective broadcast productions, both radio and television, with specific production improving procedures. A basic requirement for those who would create and write effective broadcast productions of any magnitude, whether for commercial or educational broadcasting.
260-1 **Audio Control Room Practices.** Familiarization with and operation of Radio and Television Audio Control Room equipment, such as audio control consoles, turntables, tape recorders and microphones (types, and proper placement). This course also includes familiarization and operation of remote broadcasting equipment and facilities. Preparation for FCC Third Class License with broadcast endorsement. Recommended for Radio-TV Concentrations only.

310-3 Radio-TV News. (Same as Journalism 310.) The basic techniques of writing, re-writing, and editing news from local and wire service sources, for presentation on radio and television. Actual practice with the WSIU and WSIU-TV facilities are stressed. Prerequisite: Journalism 103, 201, 202, and 303.

351-5 Programs and Audiences. The structure of broadcast programs, programming objectives, audience characteristics, analysis methods, preparation of station program schedules. Development, organization and planning of new programs within limitations of budgets and local situations. Program revising. Prerequisite: 251.

352-4 Broadcast Laws and Policies. Legal aspects of broadcasting in America. Precedent legal cases and actions by the Federal Communications Commission. Industry and network codes. International agreements. Prerequisite: 251.

360-3 Radio Announcing. Radio Announcing techniques and extensive practice for various announcing situations. Emphasis is placed on vocal development and interpretation. Numerous audio recordings. Two 1-hour lectures and 2-hour laboratory each week. Prerequisite: minimum grade of C in 161.

361-3 Television Announcing. Television announcing techniques for such situations as voice-over-film, special events, on-camera studio programs, and commercial presentations. Television studio facilities and video tape facilities for practice and performance. Prerequisite: minimum grade of C in 161.

363-4 Radio Program Production. Techniques of producing and directing radio programs with emphasis on creative use of sound effects and music. Two hours of lecture and 4 hours of lab each week. Lab hours are devoted to actual production of radio programs for use on WSIU. Prerequisite: 260.

364-4 Television Production. The principles and procedures of television production. An examination of the various studio and control room personnel and their functions in production. An analysis of purposes, theories, and techniques that lead to excellence in quality television production. Prerequisite: 252.

369-4 Television Directing. Instruction and practical experience in the directing of television programs. Techniques of directing all types of programs including news, instructional, remotes, panel and music. Two 1-hour lectures and one 4-hour laboratory each week. Prerequisite: 364.

370-2 Films for Television. The use of films and video tape in the television industry. Included are sections on local film production as well as programming and securing syndicated programs from outside sources. This course is designed for the student concentrating in television interested in programming and management.

371-3 Techniques of Staging, Lighting and Graphics for Television. A study of television studio set design, the various techniques of studio lighting, and the special demands of the graphic arts in television production. Prerequisite: 364 or consent.

373-1 to 2 Advanced Radio Production Laboratory. Staff work on WSIU-FM including actual production of radio programs from conception through completion. May be repeated. Must be repeated by students concentrating in radio-television for a total of 4 hours minimum, 8 hours maximum, but combined total of 373 and 374 cannot exceed 12 hours. Prerequisite: 363 or concurrently.

374-1 to 2 Advanced Television Production Laboratory. Staff work on WSIU-TV and Closed Circuit Television operations, including actual production of television programs from conception to completion. May be repeated. Must be repeated by students concentrating in radio-television for a total of 4 hours minimum, 8 hours maximum, but combined total of 373 and 374 cannot exceed 12 hours. Prerequisite: 364.

375-1 to 4 Problems in Radio-television Programming.

375j-1 to 2 Individual Research Problems. May be repeated, but for no more than a total of 4 hours. Assignments to be made through consultation with the chairman.

377-3 Radio and TV Advertising. Study and practical radio-television experience in designing and developing promotional and publicity campaigns for the radio and television media. Scope of study includes radio and television advertising and sales techniques, methods and skills. Prerequisite: Journalism 370 and 371, or consent.

383-4 Broadcast Writing. Various forms for radio and television including continuity, spot, feature, and program. Prerequisite: 363, 364.

390-5 Broadcast Station Management. Objectives, procedures, equipment,

costs, and policies in radio and television station development, management and operation. Prerequisites: 251, 351, 352.

393-3 Radio, Television, and Society. The interrelation of radio and television with social habit patterns and with economic and political systems. International broadcasting. Prerequisite: 251, 351, 352.

430-3 Public Affairs and the Radio-TV Establishment. Interdisciplinary examination of selected current major public issues and study of broadcast management's responses to those issues. Operational organization and reorganization, policy development, and procurement and allocation of personnel and other resources as responses to the developing public affairs commitment.

453-3 Radio-TV in Education. History and role of radio and television in education. Philosophies for education by radio and television. Analysis of types of educational broadcasting, including in-school broadcasting, adult education, and service programs.

464-3 Instruments of Public Affairs, Television Programming. Study and practice of sophisticated film and studio tools and techniques necessary for creation of public affairs television programming. Prerequisite: consent of instructor.

475-1 to 4 Individual Production Problems. May be repeated for a total of 4 hours. Assignments made by radio-television instructors.

Recreation and Outdoor Education

201-3 Leisure and Recreation. Basic philosophical and historical foundations and development of leisure and recreation in light of economic, political, and social change.

202-3 Programs in Recreation. A study of essential elements and basic principles involved in the organization and administration of various types of recreation programs with emphasis on leadership processes. Prerequisite: 201.

301-4 Outdoor Education. To acquaint students with the philosophy and techniques of teaching in the out-of-doors. Ways and means of various outdoor learning experiences.

302-3 Institutional Recreation. An introduction to the philosophy, objectives, and basic concepts of therapeutic recreation. Emphasis on rehabilitation needs and "team" approach within institutional and community setting. Prerequisites: 201, 202.

310-2 to 8 Social Recreation. Methods and materials for planning and conducting social activities: (a) techniques; (b) dramatics; (c) leisurecrafts and (d) music and dance for groups of varying sizes and ages in a variety of social settings.

320-3 Nature Interpretation. Acquaints the student with opportunities for the interpretations of the natural phenomenon. Avocational as well as the vocational aspects of natural resources.

330-3 Campcraft. Leadership skills in the use of native materials and simple tools; identification and dietary use of wild fruits, berries and plants; outdoor cooking; construction of shelters and camp facilities; and other campcrafts.

340-3 Recreation Activities. Methods, materials, and leadership techniques for conducting social recreation for the physically handicapped, the mentally retarded, the aged, and other special populations. Prerequisite: 302.

360-4 Playground Administration.

365-4 Recreation Administration. Administrative procedures in park and recreation departments—organization, finance, personnel, facilities, program, public relations, and other areas of administration. Prerequisites: 201, 202, and 15 hours of recreation.

368-4 Camp Management. Principles and procedures of selection and supervision of personnel, program planning, food preparation, health and safety, camp maintenance, evaluation, and other responsibilities of camp administration. Prerequisites: 201, 202, and 15 hours of recreation.

425-4 Recreation Areas and Facilities. Principles of planning, construction, management, and maintenance of shelters, utilities, sanitation structures, erosion control, and other related problems. Prerequisites: 201, 202, and 15 hours of recreation.

470-4 School and Community Recreation. The role of the public schools in community recreation. Emphasis on current practices and trends in curriculum

content, adult education, extracurricular activities, after-school and vacation programs, and cooperative programs with other agencies.

490-4 to 16 Practicum. Supervised practicum experience in a professional setting. Emphasis on administrative, supervisory, teaching and program leadership in community, school, park and forest, institutional, and other recreation settings. Prerequisite: consent of department.

500-4 Principles of Recreation.

510-4 Outdoor Education Workshop.

520-4 Recreation Administration Workshop.

525-3 Special Population Workshop.

530-4 Recreation Program Workshop. Program planning, organization, and implementation of comprehensive leisure time programs in public and private recreation settings, emphasis on application of basic program principles to practice. Prerequisite: 500.

540-4 Survey and Planning of Facilities.

570-4 Seminar in Recreation and Outdoor Recreation.

596-2 to 9 Independent Study.

Rehabilitation

414-1 to 16 Developing Employment Opportunities. Trains rehabilitation personnel in the attitudes, methods, and skills pertinent to placement of handicapped persons in competitive and other occupations. Prerequisite: consent of instructor.

420-4 Human Development and Behavior. Consideration of human development from the framework of the major theories. Acquisition and maintenance of diverse behavior patterns. Prerequisite: advance standing.

480-2 An Introduction to Rehabilitation. The philosophy, procedures, and practices underlying the rehabilitation movement, including the history and legislation that have contributed to its rapid development.

481-2 An Introduction to Employment and Developmental Services. The development and growth of employment services and special youth centers, current social needs and trends, and the organizational patterns in such centers.

485-4 Scientific Methods in the Behavioral Sciences. Scientific methods as an approach to the investigation of human behavior including consideration of various systems of behavior theory and practice.

486-4 Introduction to Behavior Modification. Overview of the field of behavior modification, its procedures, techniques, and methods. A survey of current literature examining the various populations being utilized.

490-1 to 6 Readings in Rehabilitation. Select readings in rehabilitation supervised by the staff. Prerequisite: consent of instructor.

501-6 (2,2,2) Rehabilitation Administration.

511-2 to 4 Vocational Developments and Occupational Choice.

519-2 Selection, Placement, and Follow-up.

521-4 Child Behavior.

526-4 Human Behavior.

532-4 Assessment Procedures in Rehabilitation.

533-4 Measurement in Behavior Change.

537-4 Diagnostic Procedures for Special Populations.

541-1 to 6 Medical Aspects of Rehabilitation.

551-3 to 4 General Rehabilitation Counseling.

552-4 Rehabilitation Counseling Research.

555-2 Rehabilitation Counseling with Mentally Retarded.

556-4 Group Procedures in Rehabilitation.

558-4 Programed Instruction and Behavior.

563-4 to 8 Aversive Control and Aggressive Behavior. Analysis of various methods of aversive control and negative reinforcement procedures. A review of the aggressive response as a consequence of aversive control. Prerequisite: 526.

564-4 Sexual Behavior.

565-4 Verbal Behavior.

567-4 School-Related Behavior.

571-1 to 6 Seminar in Selected Topics.

576-1 to 12 Seminar in Behavior Modification.

578-1 to 6 Seminar in Correctional Rehabilitation Counseling.

- 585-0 to 24 Practicum in Rehabilitation.** (a) Introduction to facilities and agencies to include supervised experiences in the function and administration of these services. (b) Application of behavioral methods with humans under close direction of supervisory staff. (c) Practice in developing counseling skills with individuals and groups.
- 589-0 to 12 Internship in Rehabilitation.**
- 590-1 to 16 Independent Projects.**
- 591-1 to 16 Research in Rehabilitation.**
- 599-1 to 9 Thesis.**

Religious Studies

- 301-3 Contemporary Western Religious Thought.** A critical evaluation of current religious thought and movements.
- 320-6 (3,3) Biblical Studies.** (a) Old Testament History and Literature; (b) New Testament History and Literature. Prerequisite: junior standing or consent of instructor.
- 330-9 (3,3,3) History of Western Religious Thought.** (a) Early and Medieval; (b) Reformation Era; (c) Post Reformation and Modern. Prerequisite: junior standing or consent of instructor.

Secondary Education

- 101-2 Developing Reading and Learning Skills.** (See Elementary Education 101.)
- 310-4 History and Principles of Secondary Education.** This course presents the nature, objectives, and current practices found in secondary schools throughout America. Prerequisite: Guidance 305 or Psychology 303, completion of 18 or more quarter hours in a declared concentration or consent of instructor.
- 315-3 High School Methods.** Various types of procedures used for effective classroom teaching constitute the basis of study and discussion. The problem approach and unit method are stressed. Prerequisite: 310.
- 352-8 to 16 Secondary Student Teaching.**
- 375-2 to 3 Readings in Secondary Education.** Readings are selected on the basis of each student's background and future plans.
- 402-4 Aerospace Education Workshop.** Teachers learn about current developments in this area and how to incorporate aerospace information into existing curricula. They study in some detail the social, political, and economic consequences of this era. Prerequisite: consent of instructor.
- 407-8 (4,4) The Junior High School.** (a) The place of the junior high school in the organizational pattern, with major emphasis upon the areas of organization, administration, and curriculum. (b) Workshop. Designed to: 1) enable teachers to discover and evaluate the new content, methods, and materials available for the junior high school, grades 7-9; 2) develop teacher-made functional instructional models. Must be taken in a,b sequence. Junior high school teaching experience may be substituted for (a) as a prerequisite to (b).
- 440-4 Teaching Reading in High School.** A foundation course in how to teach reading in junior and senior high school: developmental and corrective reading programs; appraisal of reading abilities; methods and materials of instruction. Prerequisite: Guidance 305.
- 487-4 Teaching the Natural Sciences in Secondary Schools.** Objectives of science education; instruction methods and techniques appropriate for teaching science; desirable equipment, audio-visual aids, and instructional material; development of a course outline and at least one instruction unit. Prerequisite: 315 or consent of instructor.
- 488-3 Teaching Social Studies in Secondary Schools.** Deals with objectives, scope and sequence of curriculum, methods of teaching different courses and age groups, materials and evaluation. Prerequisite: Guidance 305.
- 490-4 Workshop in Economics Education.** (See Economics 490.)
- 495-2 to 4 Seminar in Problems Related to Teaching Disadvantaged Youth.**
- 506-4 Reading in the Secondary School.**
- 507-2 to 4 Readings in Reading.**
- 508-4 Seminar: Trends in Selected Areas in Secondary Schools.**

- 509-4 to 8 Practicum in Reading.
- 510-4 to 8 Seminar: Problems in Reading.
- 514-4 Organization and Administration of Reading Programs.
- 516-8 to 12 Internship in Reading.
- 518-2 Supervision of Student Teachers.
- 521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities.
- 544-9 NDEA Summer Institute for Teachers of German.
- 550-4 Core Curriculum in the Secondary School.
- 560-1 to 8 New Developments in Technological Education.
- 562-4 The High School Curriculum.
- 564-4 High School Principalship.
- 570-4 Extra-Class Activities.
- 571-4 Doctoral Seminar.
- 575-2 to 4 Individual Research. (Selected areas with 2 to 4 hours in each.)
- 586-3 The Change Agent in Planned Change.
- 589-2 Seminar in Community Development.
- 591-4 Workshop in Current Problems in Secondary Education.
- 596-5 to 9 Independent Investigation.
- 599-3 to 9 Thesis.
- 600-1 to 48 Dissertation.

Secretarial and Business Education

Tests are given during the first week of all shorthand and typewriting courses to insure the correct placement of students in classes.

- 201-9 (3,3,3) Typewriting.** Mastery of the keyboard, speed and accuracy in the touch operation of the typewriter, and skill and knowledge needed for vocational and personal uses. Must be taken in a,b,c sequence. (a) May not be taken for credit by students who have had previous high school or other formal instruction in typewriting; (b) Prerequisite: 201a or one semester of other formal instruction in typewriting and the ability to type at least 30 words per minute; (c) Prerequisite: 201b or two semesters of other formal instruction in typewriting and the ability to type at least 40 words per minute and to prepare simple business correspondence, tables, manuscripts and forms.
- 221-12 (4,4,4) Shorthand and Transcription.** The Gregg shorthand system and the development of skill and knowledge required in taking dictation and transcribing it on the typewriter. Must be taken in a,b,c sequence. (a) May not be taken for credit by students who have had previous high school or other formal instruction in shorthand; (b) Prerequisite: 221a or one semester of other formal instruction in shorthand-transcription; (c) Prerequisite: 221b or two semesters of other formal instruction in shorthand-transcription and the ability to take sustained, new-matter dictation at 60 words per minute.
- 241-1 Duplicating.** Skills and knowledges in (1) the preparation of master copies and stencils and (2) the operation of liquid and stencil duplicating machines. Prerequisite: 201 or equivalent.
- 242-1 Calculating Machines for Accountants.** Fundamental knowledges and skills needed by accountants in the selection and use of calculating machines. Emphasis on special problems encountered by accountants.
- 259-3 to 80 Business Subjects.** For business credits earned when credit is to be established by departmental evaluation. Prerequisite: junior standing.
- 304-3 Advanced Typewriting.** Development of advanced skills in typing business correspondence, manuscripts, forms, and tables; preparation of copy from rough draft materials. Prerequisite: 201-9 or three semesters of other formal instruction in typewriting and the ability to type at least 50 words per minute and to prepare business correspondence, tables and manuscripts.
- 324-8 (4,4) Advanced Shorthand and Transcription.** The development of high-level dictation and transcription skills and knowledges. Must be taken in a,b sequence. Prerequisites: (a) 221-12 or three semesters of other formal instruction in shorthand-transcription and the ability to transcribe on the typewriter sustained, new-matter dictation taken at 80 words per minute. (b) 324a or four semesters of other formal instruction in shorthand-transcription and the ability to transcribe on the typewriter sustained, new-matter dictation taken at 100 words per minute.
- 326-4 Executive Secretarial Procedures.** An advanced course for secretaries, covering such topics as personality and human relationships, office mail,

office equipment, travel, sources of information, communications, and business reports. Prerequisite: 304.

341-4 Office Calculating Machines. Operation of basic types of office calculating machines, emphasizing the characteristic uses of each kind of machine in the office. Laboratory practice required.

403-3 Teaching Typewriting. Methods of instruction, skill-building principles and techniques, selection and preparation of instructional materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 201c or equivalent.

404-3 Teaching Shorthand and Transcription. Methods of instruction, skill-building principles and techniques, selection and preparation of instructional materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 324a or equivalent.

405-3 Teaching General Business Subjects. Instructional methods and materials for, and the evaluation of pupil progress in, such basic business subjects as general business, consumer education, economic geography, business law.

406-4 Teaching Office Practice and Office Machines. Instructional methods and materials for, and the evaluation of pupil performance in, office practice and office machines. Prerequisite: 341 or equivalent.

408-3 Teaching Bookkeeping and Accounting. Instructional methods and materials for, and the evaluation of pupil progress in, bookkeeping and accounting. Prerequisite: Accounting 251b or equivalent.

414-6 (3,3) Organization and Administration of Cooperative Vocational Business Education Programs. Prepares teachers and coordinators in accordance with the requirements of the Illinois State Plan for the Administration of Vocational Education. Philosophy and objectives of cooperative vocational programs, methods of selecting students and work stations, placing and supervising students on part-time jobs, preparation of instructional materials, job analyses, conducting related information courses, evaluating workers and work stations, advisory committees, public relations aspects of cooperative programs.

415-6 Supervised Business Experience and Related Study. Prepares teachers and coordinators in accordance with the requirements of the Illinois State Plan for the Administration of Vocational Education. Classroom study of the principles and problems of coordinating in-school and cooperative vocational business education programs; supervised occupational experience; classroom analysis and evaluation of on-the-job experiences of the members of the class in relation to their future work as coordinators and vocational teachers.

417-4 Applications and Fundamentals of Data Processing in Business Education. Acquaints business teachers with data processing applications in high school business classes. Emphasis on vocabulary development, unit record equipment, concepts of programming, and fundamentals of computer application. Approximately one-third of the course is spent in machine operation.

426-4 Office Management. The principles of management as applied to office problems. Emphasis on the role of the office in business management; office organization; physical facilities and layout of the office; office services, procedures, standards, and controls.

427-3 Records Administration. The requisites for records administration. The value of files, their creation, control, retention, and disposition. Applications to such records as medical, legal, educational. Prerequisite: 407.

500-4 Principles and Problems of Business Education.

502-4 Research in Business Education.

503-4 Tests and Measurements in Business Education.

505-1 to 6 Workshop in Business Education.

508-4 Administration and Supervision in Business Education.

509-4 Improvement of Instruction in General (Basic) Business Subjects.

510-4 Improvement of Instruction in Secretarial Subjects.

590-2 to 5 Readings in Business Education.

591-2 to 5 Individual Research in Business Education.

599-1 to 9 Thesis.

Sociology

Courses in sociology are listed according to numerical order. However, the second digit in the course number indicates its field as follows:

00-09 General Sociology

- 10-19 Methodology and Research Techniques
- 20-29 Social Psychology
- 30-39 Social Organization and Structure
- 40-49 Family
- 50-59 Sociology of Knowledge
- 60-69 Social Disorganization and Deviance
- 70-79 Special Fields
- 80-89 Applied Field

301-4 Principles of Sociology. The structure and functions of social relationship systems, both simple and complex. Analysis of processes of social differentiation, integration, and disorganization. Prerequisite: junior standing.

302-4 Contemporary Social Problems. Discussion and analysis of selected contemporary social problems with consideration of alternative courses of action. Prerequisite: 301.

305-4 Social Institutions. Concepts of institutions; origins, development, and variability of institutions; institutional lag and change. Prerequisite: GSB 201b or 301.

306-4 Social Control. The means and principles of social controls; social institutions as factors in control; techniques of directing social action. Prerequisite: GSB 201b or 301.

308-4 Statistics for Social Science. Methods and application of statistics in the social sciences. Statistical methods in demography, ecology, testing and guidance, social problems. Examination of empirical studies in these and related areas. Prerequisite: junior standing or consent of instructor.

312-4 Elements of Sociological Research. Types of research. Principles and steps in research procedure. Selected techniques. Prerequisite: 308 or equivalent.

GSB 321-3 Socialization of the Individual.

322-4 Propaganda and Public Opinion. Techniques and characteristics of propaganda; methods of measuring public opinion. Prerequisite: 301, or GSB 201b.

GSB 325-3 Race and Minority Relations.

332-4 Social Organization. An examination of the determinants of social organization; intensive analysis of institutional configurations, social stratification, and systems of social control; review of writings. Prerequisite: 301.

333-4 Community Organization. Factors involved in community organization; types, aims, and objectives; community diagnosis; individual case study of specific community. Prerequisite: 301 or GSB 201b.

335-4 Urban Sociology. The rise, development, structure, culture, planning, and problems in early and modern cities. Prerequisite: 301 or GSB 201b.

336-4 Sociology of Rural Life. The structure, functioning, and change of rural social life; study of informal groups, neighborhoods, and communities; social class and value orientation. Prerequisite: GSB 201b, or 301.

338-4 Industrial Sociology. Social organization and processes within the formal and informal structure of the industrial unit; research and experimental materials concerning social determinants of morale, status and role of the worker. Prerequisite: GSB 201b or 301.

340-4 The Family. The family in historic and contemporary society; evolution of the modern family; changes in family functions, structures, and roles. Prerequisite: GSB 201b or 301.

GSB 341-3 Marriage.

351-4 Sociology of Religion. Function of religious institutions in society and their relationship to other major social institutions; role in social control and group solidarity. Prerequisite: GSB 201b or 301.

371-4 Population and Migration. Characteristics of population, problems of growth, composition, distribution, differential fertility, international and internal migration. Prerequisite: 301 or consent of instructor.

372-4 Criminology. The nature of crime; criminal statistics; casual factors; theories and procedures in prevention and treatment. Prerequisite: GSB 201b or 301.

374-4 Sociology of Education. Methods, principles, and data of sociology applied to the school situation; relation of the school to other institutions and groups. Prerequisite: consent of instructor, or GSB 201b or 301.

375-4 Social Welfare as a Social Institution. Interdependence of social, cultural, political and economic factors in the history, theory and practice of social welfare, with special reference to development of the social work profession in response to welfare problems. Prerequisite: GSB 201b or 301.

383-4 Introduction to Interviewing. Theory and practice of interviewing as a means of gaining information, and of understanding and imparting the same. Focus is on the interview as a tool in social work, but principles are generally applicable. Prerequisite: GSB 201b or 301.

396h-1 to 4 Honors Readings in Sociology. Topics selected jointly by student and instructor which ordinarily are not covered in depth in regular course offerings. Prerequisite: consent of department.

397h-3 to 6 Honors Seminar in Sociology. Varying sociological topics studied in depth and breadth. Maximum opportunity for student participation in the exploration of the subject. May be repeated for a total of two quarters. Prerequisite: consent of department.

406-4 Social Change. Processes of social change in the modern world; culture lag and conflict of norms; individual and social problems arising from conflicting systems of social values and cultural norms. Prerequisite: GSB 201b or 301.

412-4 Sociological Research. Application of the scientific method to sociological problems. The role of theory. Principles of good research design, measurement, sampling and analysis. Prerequisite: Graduate status or consent of instructor.

415-3 Logic of the Social Sciences. (See Philosophy 415.)

424-4 Collective Behavior. The behavior of people in large groups; collective interstimulations and emotions; crowds, audiences, and publics; mass stimuli and mass response. Prerequisite: GSB 321 or 322 or consent of instructor.

426-4 Social Factors in Behavior and Personality. How group situations and values affect behavior and shape personality; development of concepts, role-concepts, attitudes, values; theories of motivation; self-concepts; conflicting social values in relation to individual motivation. Prerequisite: GSB 321 or Psychology 305, or consent of instructor.

427-4 Personality and Social Adjustment. Basic mechanisms of adjustive behavior; concepts and criteria of personal integration and social adjustment; varieties of adjustive and nonadjustive behavior; theories of personal organization and disorganization; selected problems. Prerequisite: GSB 321 or Psychology 305 or consent of instructor.

435-4 Social Stratification. A comparative study of social class systems, with emphasis on the American systems. Relationships of class position to behavior in family, religion, politics, etc. Prerequisite: GSB 201b, or 301.

438-4 Sociology of Occupations and Professions. Natural history and institutional aspects of occupations in our society, cultural context of occupations in both primitive and modern society, preparation for jobs, human values in work, promotion and discharge, mobility, retirement. Prerequisite: GSB 201b, or 301.

449-4 Sociology of Aging. The social implications of an aging population; social adjustments to the aging process; personal adjustments to the roles and statuses of later maturity; a consideration of retirement and public assistance programs for older people. Prerequisite: GSB 201b or 301.

450-4 Social Thought I: Before 1800. The ideological basis of Western society. The classical foundations. Trends of thought from the Renaissance to the Enlightenment. Prerequisite: consent of instructor.

451-4 Social Thought II: The Sociological Movement. From Romanticism to Realism; rise and development of scientific social thought. Prerequisite: consent of instructor.

453-4 Social Movements. A sociological study of modern social movements; social and cultural backgrounds, forms of expression and organization; social structure of social movements, their role and function in modern society. Prerequisite: GSB 201b or 301.

471-4 Principles of Demography. Techniques in analyzing and evaluating data on human population; composition, birth and death rates, life tables, migration data, estimates of future trend. Practical uses of demographic techniques. Prerequisites: consent of instructor.

472-4 The American Correctional System. A survey of the correctional field, covering probation, institutional treatment, and parole. Historic development, organizational structure, program content, and current problems. Prerequisite: 372 or consent of instructor.

473-4 Juvenile Delinquency. Nature of juvenile delinquency; relationship to theories of deviant behavior; efforts at prevention and control.

481-4 Processes in Social Work. Theory, rationale, and practice of casework, group work, social welfare organization, and the roles of supervision, admin-

istration, and research in relation to each. Case material study and discussion with field observation and practice. Prerequisite: 375 or consent of instructor.
482-3 Social Work in Selected Agencies. Study of representative literature on casework in family, psychiatric, medical, school, military, child welfare, and correctional settings, and others. Case material study and discussion with field observation and practice. Prerequisite: 481.

483-4 Current Problems in Corrections. An exploration of contemporary problems in control and treatment of sentenced offenders, and a review of research trends in corrections. Prerequisite: 472 or consent of instructor.

486-1 to 5 Independent Study in Community Development. Individual study and projects designed to fit the needs of each student. Prerequisite: consent of instructor.

487-4 Community Development. The concepts of community development and analysis of the social-psychological forces and processes involved in citizen study, planning and action directed toward the fuller development of communities in a democratic society. Prerequisite: 4 hours of sociology or consent of instructor.

489a-4 Probation, Classification, and Parole. An introduction to the structure and function of those elements of the correctional process primarily concerned with the evaluation, treatment, and control of offenders with particular attention to the casework components of the process. Prerequisite: 481 or consent of instructor.

489e-2 to 4 Independent Study in Corrections. Supervised readings or independent investigative projects in the various correctional aspects of crime control, institutional management, and specific correctional programs. Prerequisite: consent of instructor.

498h-1 to 4 Honors Independent Research. Advanced research study of a problem. Not for graduate students. Prerequisite: consent of department.

501-4 Survey of Sociological Theory.

502-4 Seminar in European Sociological Theory: 1800-1910.

503-4 Seminar in European Sociological Theory: 1910 to the Present.

504-4 Seminar in American Sociology.

506-4 Seminar in Contemporary Sociological Theory.

513-2 Supervised Research.

519-4 Methodological Foundations of the Social Sciences.

521-4 Seminar in Social Psychology.

522-4 Sociology of Small Groups.

526-4 Quantitative Methods in Sociology I.

527-4 Quantitative Methods in Sociology II.

528-4 Quantitative Methods in Sociology III.

529-4 Sociological Measurement.

530-4 Research Design.

531-4 Research Analysis.

532-4 Urban Social Structure.

533-4 Ecology of Human Communities.

534-4 Seminar in Intergroup Relations.

537-4 Sociology of Law.

538-4 Seminar in Industrial Sociology.

539-4 Sociology of Bureaucracy.

542-4 Seminar on the Family.

543-4 Seminar in Family Variability.

544-4 Seminar in Family Research.

545-4 The Family and Social Change.

561-4 Alcohol and Society.

562-4 Deviance and Disorganization.

563-4 Research Problems in Deviance and Disorganization.

564-4 Social Factors in Mental Disorders.

566-4 Community Organization and Disorganization.

572-4 Seminar in Criminology.

583-4 to 12 Supervised Field Work in Corrections.

587-2 to 8 Individual Research in Community Development.

588-12 (4,4,4) Seminar in Community Development.

591-2 to 6 Individual Research.

596-2 to 12 Readings in Sociology.

599-2 to 9 Thesis.

600-1 to 48 Dissertation.

Special Education

200-2 Orientation to the Education of Exceptional Children. A survey of exceptional children. Program modification by regular classroom teachers is stressed.

406-4 Techniques and Interpretation of Hearing Tests. (See Speech Pathology and Audiology 406.)

410a-4 Problems and Characteristics of the Emotionally Disturbed Child. Diagnosis, screening, classroom management, placement considerations, goals, and the effective use of ancillary services. Emphasis on the understanding of maladaptive behavior through principles of learning and behavior dynamics. Prerequisite: 414 or consent of instructor.

410b-4 Problems and Characteristics of the Mentally Retarded Child. Objectives, curriculum, methods, and materials of instruction for slow learners. Emphasis upon the principles of learning as they can be applied to this group. Observations. Prerequisite: 414 or consent of instructor.

410c-4 Problems and Characteristics of the Gifted Child. Designed to help teachers in the identification of and programming for gifted and talented children. Prerequisite: Psychology 301 or 303, or consent of instructor.

410d-4 Problems and Characteristics of the Acoustically Handicapped Child. Consideration of psycho-social and educational aspects of deafness. History and attitudes of society. The impact of auditory impairment on language development, education, and adjustment. Prerequisite: Psychology 301 or 303, or consent of instructor.

411-4 Assessment and Remediation of Learning Disabilities. (Same as Guidance 411.) Special tests and remedial programs designed for children with specific learning disabilities of a perceptual, or coordination nature and who may demonstrate related adjustment problems. Prerequisite: 414 and consent of instructor.

413a-4 Directed Observation of Emotionally Disturbed Children. Student observation and participation in group and individual work with emotionally disturbed children. Often taken concurrently with 410a. Prerequisite: consent of instructor.

413b-4 Directed Observation of Mentally Retarded Children. Student observation and participation in group and individual work with mentally retarded children. Often taken concurrently with 410b. Prerequisite: consent of instructor.

413d-4 Directed Observation and Practice with Hard-of-Hearing Children. Student observation and participation in group and individual work with hard-of-hearing children. Often taken concurrently with 515. Prerequisite: consent of instructor.

414-4 The Exceptional Child. Physical, mental, emotional, and social traits of all types of exceptional children. Effects of handicaps in learning situations. Methods of differentiation and techniques for rehabilitation. Individual case studies used; observations and field trips. Prerequisites: Psychology 301 or 303, or consent of instructor.

415-4 Education of Acoustically Handicapped Children. Comparison of language development in hearing and acoustically handicapped children. Survey of established systems of teaching language to the deaf. Principles and techniques in developing concepts, vocabulary, and basic English structures; receptive and expressive oral and written language. Prerequisite: consent of instructor.

416-4 Introduction to Audiology. (Same as Speech Pathology and Audiology 416.)

419-4 Communication Problems of the Deaf and Hard of Hearing. (Same as Speech Pathology and Audiology 419.) Objectives and techniques for the teaching of lip reading, speech conservation, and auditory training. Prerequisite: 406 or consent of instructor.

420a-4 Methods and Materials for Teaching Emotionally Disturbed Children. Prerequisite: 410a and consent of instructor.

420b-4 Methods and Materials for Teaching Mentally Retarded Children. Usually offered in conjunction with practice teaching. Prerequisite: 410b and consent of instructor.

420d-4 Methods and Materials for Teaching Acoustically Handicapped Children. Methods, materials, and techniques of teaching reading and elementary

subjects to acoustically handicapped children in special education programs. Prerequisite: 410d and consent of instructor.

421-4 Speech for Acoustically Handicapped Children. A survey of methods in teaching oral language skill to acoustically handicapped children. Emphasis on use of visual, tactile, and kinesthetic sensory avenues in developing intelligible articulation, voice and sentence rhythm. Consideration of auditory training techniques in relation to speech development. Prerequisite: Speech Pathology and Audiology 200.

428-4 Speech Correction for the Classroom Teacher. (Same as Speech Pathology and Audiology 428.)

496-2 to 8 Readings and Independent Study in Special Education. Study of a highly specific problem area in the education of exceptional children. Open only to selected seniors and graduate students. Prerequisite: 414 and consent of staff.

501-4 Special Research Problem.

513-4 Organization, Administration, and Supervision of Special Classes.

515-4 Itinerant Teaching of Exceptional Children.

517-4 The Atypical Child and Social Agencies.

518-4 Workshop in Special Education.

577-4 to 12 Practicum in Special Education.

580a-4 Seminar: Education of Maladjusted Children.

580b-4 Seminar: Education of Mentally Retarded Children.

580d-4 Seminar: Education of Acoustically Handicapped Children.

590-4 Seminar: Education of Children with Mental Deviations.

591-4 Seminar: Education of Physically Handicapped Children.

592-4 Seminar: Education of Children with Learning and Behavioral Disorders.

596-5 to 9 Independent Investigation.

599-2 to 9 Thesis.

600-1 to 48 Dissertation.

Speech

General Speech: 408, 429, 440, 449, 450-12, 520, 530-1 to 4, 532, 599-2 to 9, 600-3 to 48.

Oral Interpretation of Poetry: 423, 424, 434, 523, 530-1 to 4, 599-2 to 9.

Rhetoric and Public Address: 407-8, 417, 418, 425, 500, 504, 505, 508, 510, 524, 530-1 to 4, 599-2 to 9.

Speech Education: 402, 410, 427, 511, 530-1 to 4, 599-2 to 9.

102-4 Public Speaking. Analysis of audience motives and reactions stressed in the approach to speech preparation for typical public speaking situations. Prerequisite: GSD 103.

104-4 Training the Speaking Voice. Designed for those students who desire to improve their voice and articulation. Prerequisite: GSD 103.

200-4 Phonetics. Instruction on the use of phonetic symbols to record the speech sounds of midland American English, with emphasis on ear training, and a description of place and manner of production of these sounds.

201-2 Parliamentary Law. How to conduct a meeting. Study and practice of the rules of parliamentary procedure.

202-3 Principles of Discussion. Principles and methods of group discussion. Current problems used as materials for discussion.

205-4 Argumentation and Debate. Principles of argument, analysis, evidence, reasoning, fallacies, briefing, and delivery.

209-1 to 3 Forensic Activities. Not more than 3 hours of credit, and no more than 2 each year, to be secured for participating in forensic activities. Note: A maximum of 5 hours of 209 and 309 may be applied on a concentration in speech. A maximum of 8 hours of 209 and 309 may be applied toward graduation. Prerequisite: consent of instructor.

211-4 Teaching Oral Language at the Pre-School and Early Elementary Level. Designed for teachers of culturally disadvantaged children. Emphasis on environmentally derived language problems of the young child. Included are theory of language development, relationships between language and learning, and practice in constructing ameliorative language experiences needed in the child's successful intellectual and social development.

300-4 Phonemics of American English. Study of the phonemics of American English with particular emphasis in the major American dialects. Course designed especially for concentrations in speech, theater, and radio-TV. Prerequisite: 200 or consent of instructor and chairman.

301-4 Persuasion. Psychological principles involved in influencing individuals and groups.

303-4 Business and Professional Speaking. Speaking needs of business and professional people. Technical reports and lighter types of speaking included in the types studied. Primarily for adult and extension classes.

304-3 Great Speeches in American and British History. Speakers as they deal with historic issues in America and Britain.

309-1 to 4 Forensic Activities. Not more than 4 hours, and no more than 2 each year, to be secured for participation in forensic activities. Note: A maximum of 5 hours of 209 and 309 may be applied on a concentration speech. A maximum of 8 hours of 209 and 309 may be applied toward graduation. Prerequisite: junior standing and consent of instructor.

313-4 Speech Composition. Rhetorical techniques of public address. One major speech prepared, with every possible refinement. Prerequisite: 102.

323-4 Oral Interpretation II. A basic course in the oral interpretation of literature with emphasis on vocal techniques in relation to literary analysis. Prerequisite: GSC 200 or consent of instructor.

401-4 Creative Dramatics. (Same as Theater 401.) Materials, techniques, and procedures for conducting sessions in informal drama with emphasis on its contribution to the total growth and development of the child. Lectures, observations, student participation, and practice.

406-4 Teaching Speech in Secondary Schools. Philosophy of speech education, and effective teaching of speech through curricular and extra-curricular work. Prerequisite: 16 hours of speech.

407-8 (4,4) American Public Address. Critical studies of American speakers; selected speakers and speeches which reflect the dominant social and political ideas in American history. A lecture, reading, and discussion course. Parts may be taken independently.

408-4 Psychology of Speech. Nature and development of speech, its basic psychology, and the part speech plays in personality development.

417-4 Contemporary Public Address. A critical study of speakers and speeches selected to present the characteristic ideas of leading social and political developments in national and international affairs since 1918. A lecture, reading, and discussion course.

418-4 British Public Address. Critical study of British speakers to c. 1920. Selection of material will be governed both by men and the issues that moved men throughout British history.

422-4 Oral Interpretation of Prose. The study of reading of prose literature emphasizing the specific problems posed for the oral reader by this form. Prerequisite: GSD 200, 323, or consent of instructor.

423-4 Oral Interpretation of Poetry. The reading of poetry and the interpretation of the thought and emotional content of the poetry to the audience. Prerequisite: GSD 200, 323.

424-4 Oral Interpretation of Dramatic Literature. Reading, selecting, cutting, and presenting various types of dramatic literature. Each student gives a final recital program of readings. Prerequisites: GSD 200, 323.

425-3 Techniques of Discussion Leadership. Studies in the field of group discussion designed to clarify the functions and concepts of the leader in democratic society.

427-4 Secondary School Forensic Program. Coaching and organizational methods for extracurricular and curricular forensic programs in the secondary schools.

429-4 Experimental Studies in Oral Communication. A survey, analysis, and criticism of experimental approaches to the study of oral communication, with practice in planning and conducting experimental studies.

434-4 Lecture and Lecture-Recital. Study of professional work on the public platform which is climaxed by a lecture or recital of a professional nature. Prerequisite: 12 hours of public speaking, interpretation, or theater.

440-4 Advanced Phonetics. Phonetic theory. Materials and methods of linguistic geography. Prerequisite: 200.

441-4 Teaching Speech in Elementary Schools. Study of oral language development in children, analysis of their speech needs, and methods of teaching

speech in elementary schools with emphasis on speech improvement and development of basic speech skills.

449-4 General Semantics. Means of changing implications so that language, in spoken or written form, describes the life facts.

450-12 (4,4,4) Laboratory in Interpersonal Communication. Communication viewed as a process of relating and evaluating. Applications of general semantics and related philosophy, methodology, and research to the functioning of the class itself through various speech activities. The course encompasses the common core of communication behaviors relevant to the chief communication specialties.

500-4 Survey of Classical Rhetoric.

501-10 NDEA Institute in Oral Language.

504-4 Medieval and Renaissance Rhetoric.

505-4 Modern Rhetorical Theory.

507-6 (3,3) Studies in Public Address.

508-4 Seminar: Studies in Discussion.

510-4 Seminar: Persuasion and Social Control.

511-4 (2,2) Teaching the College Speech Course.

520-3 Philosophical Foundations of Speech.

523-4 Seminar: Problems in Interpretation.

524-6 (3,3) Seminar: Rhetoric and Public Address.

525-4 Seminar: Speech Education.

526-3 Seminar in Theater Arts.

527-3 College Forensic Program.

530-1 to 4 Research Problems.

532-4 (2,2) Areas and Techniques of Research in Speech.

599-2 to 9 Thesis.

600-1 to 48 Dissertation.

Speech Pathology and Audiology

100-0 to 2 Speech Clinic. For students with speech and hearing deviations who need individual help.

104-4 Training the Speaking Voice. For those students who desire to improve their voice and articulation.

200-4 Phonetics. Instruction in the Use of phonetic symbols to record the speech sounds of midland American English, with emphasis on ear training, and a description of place and manner of production of these sounds.

203-4 Introduction to Speech Science. An introduction to the science of general speech including the history of research in the field and significant experimental trends in the future. Open to all students.

212-4 Articulatory Problems and Delayed Speech. Acquaints the student with articulatory speech defects. Diagnostic and therapeutic techniques stressed. Prerequisite: 200 or concurrent.

318-4 Voice and Cleft Palate. Voice disorders including cleft palate. Prerequisite: 212, or consent of instructor.

319-4 Stuttering. Deals with diagnostic and therapeutic techniques for the understanding and treatment of stuttering. Prerequisite: 212, or consent of instructor.

400-1 to 4 Independent Study in Speech Pathology and Audiology. Activities involved shall be investigative, creative, or clinical in character. Must be arranged in advance with the instructor. May be repeated for up to 6 hours.

405-12 (4,4,4) Practicum in Speech and Hearing Therapy. Clinical and school procedures in speech pathology and audiology. One hour of class per week, and 2 hours of clinical activity or work on clinically related projects for each hour of credit. (a) emphasizes therapeutic procedures; (b) emphasizes diagnostic techniques; (c) emphasizes the utilization of forms and the preparation of reports. Prerequisite: junior standing.

406-4 Techniques and Interpretation of Hearing Tests. Principles and techniques of testing the hearing and interpreting those tests in terms of the individual's needs. Prerequisite: 416 or consent of instructor.

409-4 Research Techniques in Speech Science. A presentation of the research techniques used in speech science with particular emphasis on equipment, experimental design, and study of significant research contributions to the field. Open to advanced students in speech or those with consent of instructor.

- 412-4 Cerebral Palsy.** An investigation of the etiology, problems, and therapy of cerebral palsy. Prerequisite: 212, 414 or consent of instructor.
- 414-4 Anatomy and Physiology of Speech and Hearing Mechanisms.** (See Physiology 414.)
- 415-4 Aphasia.** An investigation of the etiology, problems, and therapy of aphasia. Prerequisite: 412, 414 or consent of instructor.
- 416-4 Introduction to Audiology.** Provides the student with a basic orientation to the professional field of audiology, its history and its goals. Basic acoustics, the phylogeny, anatomy and physiology of the human ear, and significant pathologies of the ear are presented. Prerequisite: junior standing or consent of instructor.
- 419-4 Communication Problems of the Deaf and Hard of Hearing.** (Same as Special Education 419.) Objectives and techniques for the teaching of lip reading, speech conservation, and auditory training. Prerequisite: 406 or consent of instructor.
- 420-4 Advanced Clinical Audiometry.** Principles and procedures for advanced audiometric testing, advanced problems in bone conduction measurements, in evaluation of loudness recruitment, in topodiagnostic audiometry, and non-organic hearing loss are presented. Practical techniques include speech audiometry, Bekesy audiometry, conditioned pure tone electrodermal audiometry, and use of the Zwislocki Acoustic Bridge. Prerequisite: 416 and 406 or consent of instructor.
- 421-4 Speech for Acoustically Handicapped Children.** (See Special Education 421.)
- 428-4 Speech Correction for the Classroom Teacher.** (Same as Special Education 428.) Etiology and therapy of common speech defects. Open to in-service teachers, seniors, and graduate students in education.
- 515-1 to 4 Readings in Speech Pathology and Audiology.**
- 516-4 Seminar in Psychoacoustics.**
- 520-4 Seminar in Physiological Acoustics.**
- 521-1 to 4 Seminar in Articulation and Delayed Speech.**
- 522-16 (4,4,4,4) Seminar in Organic Speech Problems.**
- 528-4 Seminar in Experimental Audiology.**
- 529-12 (4,4,4) Seminar in Stuttering Behavior.**
- 530-1 to 4 Research Problems in Speech Pathology & Audiology.**
- 531-1 to 4 Seminar in Experimental Phonetics.**
- 533-1 to 4 Seminar in Speech Science.**
- 534-1 to 4 Seminar in Instrumentation.**
- 536-1 to 4 Seminar in Administration of Speech and Hearing Problems.**
- 599-2 to 9 Thesis.**
- 600-1 to 48 Dissertation.**

Technical and Industrial Education

- 100-2 Orientation.** (See Engineering Technology 100.)
- 201-6 (3,3) Visual Communications.** (a) Introduction to the language of industry involving technical sketching, projections and developments, graphic symbolism, printing, duplicating, photography, and copying. (b) Advanced concepts and techniques involving graphic projections, intersections, and developments; relief, offset, and silk screen printing; mimeograph, xerography, photography, and other processes.
- 207-3 Energy Conversion & Power Transmission I.** Introduction to energy conversion and power transmission, including a brief review of the mechanical laws of physics.
- 259-3 to 80 Shop and Drafting Subjects.** (Same as Engineering 259, Engineering Technology 259, Industrial Technology 259, and Technical and Industrial Education 259.) This is a designation for shop or drawing credit earned, or for trade proficiency, when credit is to be established by departmental evaluation. Prerequisite: junior standing.
- 302-4 Construction Methods for Primary Teachers.** Various media such as wood, metal, and paper. Acquainting the primary teacher with the materials, tools, and processes which students at the primary level can manipulate and use in the classroom. Laboratory.
- 303-4 Diversified Crafts for Teachers and Recreational Leaders.** Experience in constructional activities involving the use of wood, metals, leathers, plastics,

reed, raffia, clay, and other materials adaptable to the needs and interests of camp counselors and elementary school leaders. Laboratory.

305-8 (4,4) Materials and Processes. (a) The nature of industrial materials, their physical properties, structure, natural state, extraction, and processing. Emphasis on testing, joining, and the industrial applications of various wood, metal, plastic, and ceramic materials. (b) Concepts and techniques in cutting, shaping, forming, treating, polishing, finishing, and testing various wood, metal, plastic, and ceramic materials.

307-3 Energy Conversion & Power Transmission II. Principles, operation, and application of power generating equipment. Reciprocating, gas and steam turbines, jet, and other internal combustion engines, atomic, solar, and chemical power sources, and mechanical, pneumatic, and hydraulic transmission systems are treated from the general education standpoint. Prerequisite: 207.

310-8 (4,4) Electronics & Instrumentation. (a) Introduction to electron theory, optics and sound, electrostatics, circuit theory, control instrumentation, and automation. (b) Principles and applications of circuit theory, control instrumentation in open and closed systems, computer language, computer graphics, and numerical control, from the general education standpoint.

319-3 to 24 (3 per quarter) Industrial Internship. Industrial experience includes job skills, manufacturing processes, technical information, and labor-management relationships with supervised instruction, conferences and examinations. Required of Vocational Teachers. Prerequisite: consent of coordinator.

380-1 to 12 Special Skills in Teaching Technological Subjects. Develops new and special industrial skills for teaching industrial and technological subjects. For advanced students and teachers to develop new but basic manipulative skills and understandings in selected areas. Prerequisite: 12 hours in Technical and Industrial Education.

408-3 Teaching Aids in Technological Education. Selection, development, analysis, cataloging, and use of commercial and self-made instructional aids and devices.

419-8 to 16 Student Teaching in Technical Programs. Experience in working with special and post-high school technical training programs in approved centers. The student teacher will follow the program of the supervisors of the primary specialization in both regular and extra-class activities. Prerequisite: 9 quarter hours professional Industrial Education.

420-8 (4,4) Enterprise: The Man-Machine System. Classroom, laboratory, and library study of man-machine systems in a variety of industries and institutions with emphasis on teaching children and youth to understand the world of work. For advanced students and experienced teachers. Must be taken in a,b sequence. Prerequisite: 20 hours in Technical and Industrial Education.

425-2 to 8 Practicum in Technology. Experiences in the industrial applications of technological knowledge. Cooperative arrangements with selected corporations and professional organizations provide opportunity to study technical problems in the industrial environment under the direction of specialists. Prerequisite: 12 hours in technical subjects.

430-2 to 8 Special Problems in Industry and Technology. Special opportunity for students to obtain assistance and guidance in the investigation and solution of selected technical problems. Prerequisite: consent of instructor.

435-6 to 18 Manual Arts Internship. Supervised hospital experience featuring various applications of manual arts therapeutical treatments. Prerequisite: consent of coordinator.

450-1 to 12 (1 to 4 per quarter) Advanced Skills in Technical Subjects. Modern industrial practices and techniques in various selected technical fields. For experienced persons seeking an opportunity to develop advanced techniques and to increase understanding in specialized industrial fields. Emphasis on modern industrial processes, methods, materials, and techniques used in school shops, drafting rooms, and industrial organizations. Prerequisite: basic training in area selected for study. Limited to certified teachers.

465-8 (4,4) Industrial Safety. (See Engineering Technology 465.)

480-3 Curriculum Development in Industrial Arts Education. Selection, development, and analysis of new concepts in technology, man, and enterprise for use in the schools. New methodology and apparatus for teaching are developed. For advanced students and experienced teachers. Prerequisite: 20 hours in Technical and Industrial Education.

485-3 Principles and Philosophy of Vocational and Technical Education.

(Same as Agricultural Education 485, Home Economics 485, Secondary Education 485, Secretarial and Business Education 485.) Team teaching used. Gives an understanding of the nature and purposes of practical arts, vocational and technical education, their relationships and differences, and the place of each in preparing people for the world of work. Prerequisite: Student teaching or consent of department.

487-3 Layout and Planning of Technical Facilities. Principles and practices underlying the planning and designing of shops and laboratories in vocational, industrial, and technical education. Prerequisite: 12 hours in technical subjects.

491-6 (3,3) Principles of Industrial Teaching. (a) Problems and special methods in teaching industrial arts; (b) Emphasis on methods of teaching trade subjects. May be taken in either sequence. Required for vocational teachers, coordinators and supervisors. Prerequisite: one-half of concentration must be completed.

494-3 Organization and Administration of Industrial Education. Principles and policies governing the administration of industrial education programs in elementary, junior, and senior high schools; relation of federal and state supervision of industrial education to local administration. Required for vocational teachers and supervisors. Prerequisite: 12 hours in technical subjects.

495-3 Occupational Analysis. Involves the fundamental steps for analyzing trades and other occupations with some thought toward establishing appropriate units of instruction for the apprentice or student. Jobs, operations, and essential related information are analyzed. Required for vocational teachers, coordinators, and supervisors. Prerequisite: 12 hours in technical subjects.

496-3 Selection and Organization of Subject Matter. Selection and arrangement of teaching content; preparation of assignment, operation, information, and job sheets; preparation of tests. Prerequisite: 12 hours in Technical and Industrial Education.

497-3 Leaders and Literature in Technological Education. An understanding of the literature available, one's obligation for keeping abreast of new developments, and emphasis on reading and scanning for new ideas in student's specialized field. Prerequisite: 12 hours in Technical and Industrial Education.

498-3 Planning Multiple Activity Programs. Philosophy, techniques, and administration of laboratories and shops featuring multiple offerings. Prerequisite: consent of instructor.

502-4 Evaluation of Occupational Education Programs.

504-4 History of Industrial and Vocational Education.

505-4 Administration and Supervision of Industrial Education.

506-4 Cooperative Programs.

525-3 Interrelated Vocational Cooperative Education.

540-2 to 6 Research in Technological Education.

541-4 Occupational Information and Guidance.

550-4 College Teaching of Industrial and Technical Subjects.

560-2 to 12 (2 to 8 per quarter) New Developments in Technological Education.

570-2 to 6 Special Investigations.

580-1 to 9 Seminar.

599-1 to 9 Thesis.

Theater

111-9 (3,3,3) Staging Techniques. All phases of dramatic production in connection with departmental public presentations. Lectures and laboratory.

203-4 Voice and Diction. Principles and practice in personal vocal and articulatory development and control. General group drills in phonation, resonance and vocal variety; drills for clarity and ease in articulation. For specific vocal needs; individual exercises, coaching and critical comment; leading to increased effectiveness in formal reading and speaking situations.

207-4 Fundamentals of Theatrical Design. Graphic media and workshop exercises acquaint students with the problems encountered by the director, scene designer, costumer, and lighting director in providing a suitable environment, by visual means, for the actor.

208-1 to 3 Dramatic Activities. Credit to be earned by participation in public performances.

217-4 Acting. Basic techniques of acting in all dramatic media. Emphasis on

expression through bodily action and movements. Develops the actor's fundamental tools: motivation, sensory perception, voice, bodily action, movement, and a working vocabulary. Exercises.

240-2 to 24 Theory and Technique of Contemporary Dance. (See Physical Education—Women 240.)

305-4 Stage Make-up. Theory and technique of various types of make-ups.

308-1 to 3 Dramatic Activities. Same as 208.

311-4 Introduction to Playwriting. The preparation of a one-act play from germinal idea to completed script. Those scripts indicating a certain level of artistry and technical control to be produced in a laboratory theater program. Course includes the analysis of dramaturgical technique and theory through the study of selected plays and criticism. Prerequisite: one course in dramatic literature and consent of instructor.

317-4 Intermediate Acting. Practical application, through various scenes and exercises, of the elements of concentration, emotional recall, rhythm, observation, characterization, and rehearsal methods. Prerequisite: 217.

322-2 to 12 Practicum in Theater. Practical experience in acting, directing, and associated theater work in area tours and summer stock. Credit may be earned for the course both on tour and in stock.

GSC 354-6 (3,3) History of the Theater.

379-3 Preclassic Dance Forms. (Same as Physical Education—Women 379.) Lectures and readings in dance of the 16th, 17th, and early 18th centuries. Study and execution of representative preclassic dances. Prerequisite: 230.

401-4 Creative Dramatics. (See Speech 401.)

402-8 (4,4) Play Directing. (a) The principles and procedures of play direction including play selection, interpretation, and the patterning of auditory and visual stimuli; (b) Continuation of 402a emphasizing rehearsal procedures, control of tempo and mood, styles of presentation and performance, and other techniques in the direction of plays.

403-4 Aesthetics of the Drama and the Theater. Principles and practice of modern dramatic production in the light of modern aesthetic theory. A course attempting to formulate an aesthetic judgment of the theater.

404-4 Theater Management. Theater operational procedure, including both fundamental structuring and house management. The former aspect includes administration, purchasing, and accounting practices, ticket sales, publicity, promotion, and public relations. The latter aspect covers the management of box-office and ushering.

405-8 (4,4) The Scenic Imagination. (a) A study of the purely creative side of stage production. It includes an analysis of the script and its meaning for an audience; a poetic evaluation of the setting, costumes, and lighting; and the blocking out of the stage action; (b) Theater research and documentation; an approach to sketches and models; a review of the historic forms of staging, with emphasis on the modern styles from naturalism to epic theater.

406-1 American Professional Theater Procedures and Practices. An introduction to the everyday realities of a professional stage career, including problems of survival, professional ethics and protocol, personal relations, and the function of stage unions.

409-4 High School Theater and Its Production Problems. Consideration of stage machinery, equipment, light controls and instruments, production, and techniques. Analysis of basic needs of the high school theater.

410-3 Children's Theater. Creative dramatics; dramatization of children's literature; play production for elementary schools. Recommended for education concentrations.

411-4 Playwriting. The writing of a full-length play, a children's play, or a historical pageant-drama forms the basis of the course. Students may elect to write two one-act plays. Individual conferences supplement the class discussion and analysis of student writing. Prerequisite for graduate students: consent of instructor.

412-4 Stage Design. The design of settings for the stage and other dramatic media. Prerequisite: 207.

414-4 Costume Design.

415-4 Advanced Costume Design.

416-4 Current Theories and Practices in the Teaching of Dance. (See Physical Education 416.)

417-4 Advanced Acting. Lectures, readings, and practical application dealing with advanced studies of characterizations and acting styles on an individual basis. Prerequisite: 217, 317.

- 432-4 Stage Lighting.** Instruments and control equipment; principals and techniques of lighting dramatic productions.
- 438-4 Contemporary Developments in the Theater.** Critical study of theory and practice in acting, directing, production, and architecture in the modern theater. The rise and development of the film, radio, and television as dramatic media.
- 502-4 Advanced Directing.**
- 503-12 (4,4,4) Advanced Technical Problems.**
- 504-4 The Comic Theater.**
- 505-4 The Tragic Theater.**
- 506-4 The American Theater.**
- 509-4 The High School Theater and its Production Problems.**
- 518-4 Theater Audience.**
- 519-1 to 12 Theater Practicum.**
- 526-3 to 12 Seminar in Theater Arts.**
- 530-1 to 4 Research Problems in Theater.**
- 599-1 to 9 Thesis.**

University Convocation

- 000-0 Freshman Convocation.**

Zoology

- 102-5 General Invertebrate Zoology.** Studies of representatives of the various kinds of invertebrate animals. Relationships, structure, and natural history are emphasized. Two lecture and 6 laboratory hours per week. Prerequisite: GSA 201b.
- 103-5 General Vertebrate Zoology.** Studies of representatives of the various kinds of vertebrate animals. Evolutionary development, structure, and natural history are emphasized. Two lecture and 6 laboratory hours per week. Prerequisite: GSA 201.
- 202-5 Comparative Anatomy of Vertebrates.** Comparative studies of the organ systems of vertebrate animals, with emphasis on the phylogeny and evolution of these organs. Two lecture and 6 laboratory hours per week. Prerequisite: 103.
- 300-5 Vertebrate Embryology.** Development of the individual with the frog, chick, and pig as types. Three lectures and four laboratory hours per week. Prerequisite: 202.
- 309-5 Elementary Cytology.** Introduction to structure and function of the cell on an elementary level. Three lecture and four laboratory hours per week. Prerequisite: 15 hours of biology.
- 310-5 Animal Ecology.** Habitats, communities, and population dynamics of animals. Cost of field trips may be \$5-\$25 per student. Three lecture and 4 laboratory hours per week. Prerequisite: 102, 103.
- GSA 312-3 Conservation of Natural Resources.**
- GSA 313-3 Evolution.**
- GSA 314-3 Man's Genetic Heritage.**
- GSA 315-3 History of Biology.**
- 316-4 Insect Pests and Their Control.** Principal injurious insects and their allies; chemical and biological methods of control. (Credit may not be used toward a concentration in zoology.) Two lecture and 4 laboratory hours per week. Prerequisite: GSA 201b.
- 321-5 Histological Techniques in Zoology.** Methods of preparing material for microscopic study. Two lecture and 6 laboratory hours per week. Prerequisite: one year of biological sciences or consent of instructor.
- 322-2 to 5 Problems in Zoology.** Research on zoological problems. Prerequisite: 4.25 grade point average, senior standing, and approval of the department or faculty. (Credit may not be used toward a secondary concentration in zoology.)
- 382-0.5 to 1.5 (.5,.5,.5) Zoology Seminar for Seniors.** Two quarters required of seniors concentrating in zoology. Prerequisite: senior standing.
- 400-2 Animal Taxonomy.** The concepts of taxonomy and their use in zoology. Prerequisite: one year of biology or consent of instructor.
- 401-5 Genetics.** Principles of inheritance, including genetic mechanisms, mu-

tation, and selection. Prerequisite: 15 hours of biological science and consent of instructor.

402-4 Natural History of Invertebrates. Observation, identification, and life histories. Designed for teachers. Not for students specializing in invertebrate zoology. Prerequisite: one year of zoology including 102.

403-4 Natural History of Vertebrates. Observation, identification, and life histories. Designed for teachers. Not for students specializing in vertebrate zoology. Prerequisite: one year of zoology including 103.

404-2 to 8 Zoology Field Studies. A trip of four to eight weeks to acquaint students with animals in various environments and/or with methods of field study, collection, and preservation. Arrangements made in advance of term. Cost per individual will be approximately \$25 per week. (Only 4 hours may be used for credit.) Prerequisite: consent of department.

406-4 Protozoology. Taxonomy, cytology, reproduction, and physiology of unicellular animals. Laboratory methods of culturing and studying. Prerequisite: one year of zoology including 102 or consent of instructor.

407-5 Parasitology. Principles, collection, identification, morphology, life histories, and control measures. Prerequisite: one year of zoology including 102.

408-4 Herpetology. Taxonomic groups, identification, morphology, and natural history of amphibians and reptiles. Prerequisite: one year of zoology, including 103.

409-5 Histology. Microscopic structure of organs and tissues with emphasis on mammalian forms. Prerequisite: 202.

410-5 Vertebrate Paleontology. History of vertebrate animals in terms of their morphological change, geological succession, and ecological relationships. Prerequisite: one year of zoology including 202 or Geology 221.

413-5 The Invertebrates. Structure, development, and natural history of invertebrates, except insects and parasites. Prerequisite: one year of zoology, including 102.

414-4 Freshwater Invertebrates. Taxonomic groups, identification and natural history of the regional fauna. Prerequisite: one year of zoology, including 102.

415-4 Limnology. Lakes and other inland waters, the organisms living in them, and factors affecting these organisms. Prerequisite: one year of zoology, including 102.

441-4 Developmental Biology. Principles of development and organization. Prerequisite: 300 and one course in cellular physiology, or consent of instructor.

459-4 Game Birds. Natural history and management. Prerequisite: one year of zoology including 103.

461-4 Mammalogy. Taxonomic groups, identification, and natural history of mammals. Prerequisite: one year of zoology including 103.

463-4 Wildlife Management. General survey of management techniques. Prerequisite: 15 hours of biological science, consent of instructor.

465-4 Ichthyology. Taxonomic groups, identification, and natural history of fishes. Prerequisite: one year of zoology, including 103.

466-4 Fish Management. Sampling, dynamics, and manipulation of fish populations, age and growth of fishes, and habitat improvement. Prerequisites: 15 hours of biological science, consent of instructor.

467-4 Ornithology. Classification and recognition of birds and the study of their songs, nests, migratory habits, and other behavior. Cost of field trips may be \$5 to \$10 per student. Two lecture and 4 laboratory hours per week. Prerequisite: GSA 201b.

471-4 Entomology. Principles of the structure, classification, and life histories of insects. Two lectures and 4 laboratory hours per week. Prerequisite: 102.

508-4 Helminthology.

510-4 Bio-ecology.

512-3 Animal Geography.

513-3 Advanced Ornithology.

514-4 Advanced Entomology.

520-5 Advanced Invertebrates.

521-4 Advanced Limnology.

525-5 Cytology.

540-3 Factors in Animal Reproduction.

542-3 Osteology.

- 560-3 Advanced Wildlife Management.**
- 561-4 Game Mammals.**
- 566-4 Fish Culture.**
- 577-3 Population Ecology.**
- 578-4 Population Genetics.**
- 579-4 Animal Behavior.**
- 580-4 Advanced Systematics.**
- 581-3 Readings in Current Zoological Literature.**
- 582-1.5 (0.5,0.5,0.5) Graduate Zoology Seminar.**
- 583-3 (1,1,1) Teaching of Zoology in College.**
- 596-3 to 12 Special Research.**
- 599-2 to 9 Master's Research and Thesis.**
- 600-3 to 48 Research and Dissertation.**

4 / Faculty

School of Agriculture

Agricultural Industries

Professors Herman M. Haag, Ph.D.
W. E. Keepper, Ph.D.
William M. Herr, Ph.D.
Walter J. Wills, Ph.D. (*Chairman*)
Associate Professors Ralph A. Benton,
Ph.D.
J. J. Paterson, M.S.

Eugene S. Wood, Ed.D.
Assistant Professors Theodore Buila,
Ph.D.
Donald Osburn, Ph.D.
Lyle Solverson, Ph.D.
Instructors William A. Doerr, M.S.
Thomas Stitt, M.S.

Animal Industries

Professors Scott W. Hinners, Ph.D.
Germain B. Marion, Ph.D. (*Chairman*)
Howard H. Olson, Ph.D.
Alex Reed, Ph.D.
Associate Professors Bill L. Goodman,
Ph.D.
W. G. Kammlade, Jr., Ph.D.
Assistant Professors Howard W. Miller,
Ph.D.

Louis E. Strack, D.V.M.
George H. Waring, Ph.D.
Assistant Instructors Howard F. Benson, B.S.
Ronald Carr, B.S.
Robert Francis, B.S.
Russell Snyder, B.S.
Lecturer Marshall G. Clark, M.S.
(*Emeritus*)

Forestry

Professors John W. Andresen, Ph.D. (*Chairman*)
Neil W. Hosley, Ph.D.
Associate Professor Ali A. Moslemi, Ph.D.
Assistant Professors Dwight R. McCurdy, Ph.D.
Paul L. Roth, Ph.D.
Instructor F. Philip Neumann, M.S.

Plant Industries

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J. K. Leasure, Ph.D. (*Chairman*)
James B. Mowry, Ph.D.
Herbert L. Portz, Ph.D.
Joseph P. Vavra, Jr., Ph.D.
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Irvin G. Hillyer, Ph.D.
Joe H. Jones, Ph.D.
Oval Myers, Jr., Ph.D.
Jesse M. Rawson, Ph.D.
Lowell R. Tucker, Ph.D. (*Emeritus*)
Assistant Professors Donald M. Elkins, Ph.D.
James A. Tweedy, Ph.D.
Instructor George Kapusta, M.A.

Adjunct Professors Roland C. Blake, Ph.D.
John W. Hull, Ph.D.

School of Business

Accounting

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Edward J. Schmidlein, Ph.D.
Ralph D. Swick, D.B.A.
Associate Professors Mary Noel Barron, M.S.
William Cundiff, J.D.

Robert L. Gallegly, M.A.
 Susie Ogden, M.A. (*Emerita*)
 Roland M. Wright, Ph.D. (*Chairman*)

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 Thomas V. Hedges, D.B.A.
 Marvin W. Tucker, Ph.D.

Economics

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 Milton T. Edelman, Ph.D.
 George H. Hand, Ph.D.
 C. Addison Hickman, Ph.D.
 Robert G. Layer, Ph.D.
 Thomas A. Martinsek, Ph.D.
 Lewis A. Maverick, Ed.D. (*Emeritus*)
 Edward V. Miles, Jr., M.A. (*Emeritus*)
 G. Carl Wiegand, Ph.D.
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 Vernon G. Morrison, Ph.D.

Milton R. Russell, Ph.D. (*Chairman*)
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 Byron M. Bunker, Ph.D.
 Robert J. Ellis, Ph.D.
 Richard G. Fryman, Ph.D.
 Kanji Haitani, Ph.D.
 Jerome J. Hollenhorst, Ph.D.
 Paul W. Isbell, M.S.
 Andrew J. Petro, Ph.D.
 Charles G. Stalon, Ph.D.
 Peter Skinner Stowe, Ph.D.
Instructor Habib O. E. Jam, M.A.

Finance

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 Edward L. Winn, Jr., D.B.A.
Assistant Professors Irving W. Adams, B.A.

Peter W. Bacon, D.B.A.
 Van A. Buboltz, M.A.
 Ahmad D. Issa, Ph.D.
 Jeffrey P. Laycock, Juris Dr.
 Gola Waters, M.S.

Management

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 R. E. Schellenberger, Ph.D. (*Chairman*)
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 Floyd A. Patrick, Ph.D.

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 James G. Hunt, Ph.D.
 Stuart Alden Taylor, D.B.A.
Instructors David N. Bateman, M.A.
 Bud D. Cross, M.S.
 George A. Flummer, M.S.

Marketing

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 William P. Dommermuth, Ph.D.
 Robert S. Hancock, Ph.D.
 Charles H. Hindersman, D.B.A.
Associate Professors Kendall Adams, Ph.D.

John R. Lowry, Ph.D.
Assistant Professors Gary F. McKinnon, Ph.D.
 Donald L. Perry, Ph.D.
Instructors Raymond LaGarce, M.S.
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Secretarial and Business Education

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 Harves C. Rahe, Ed.D. (*Chairman*)
Associate Professor Viola DuFrain, Ph.D. (*Emerita*)

Assistant Professor Van A. Buboltz, M.A.
Instructor O. June Burger, M.S.

School of Communications

Cinema and Photography

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 John Mercer, Ph.D. (*Chairman*)
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 Howard F. Eilers, M.F.A.
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Journalism

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 Howard R. Long, Ph.D. (Chairman) William H. Lyons, M.A.
 Ralph E. McCoy, Ph.D. John Matheson, Ph.D.
 Willis Moore, Ph.D. William Manion Rice, M.A.
 Bryce W. Rucker, Ph.D. *Instructor* Clifton O. Lawhorne, Ph.D.
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 Marvin Rimerman, D.S.Sc.
Assistant Professors Homer Eugene Dybvig, M.F.A. *Lecturers* Byron Bartlett, M.A.
 Paul J. Dugas, M.A.
 Charles T. Lynch, M.A.

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 Ralph A. Micken, Ph.D. (Chairman) Thomas Pace, Ph.D.
 William D. Smith, Ph.D.
 David Potter, Ph.D. *Assistant Professors* Frank Gonzalez, M.A.
 C. Horton Talley, Ph.D. Keith Sanders, Ph.D.
Associate Professors Lester R. Breniman, Ph.D. *Instructors* Marvin D. Kleinau, M.A.
 Eunice Beverly Goodiel, M.A.
 Cameron W. Garbutt, Ph.D. Raymond D. Wiley, M.S.
 Richard P. Hibbs, M.A.
 Dorothy C. Higginbotham, Ph.D.

Speech Pathology and Audiology

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 Eugene J. Brutton, Ph.D. Ronald G. Hansen, Ph.D.
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 Donald J. Shoemaker, Ph.D. *Adjunct Professor* Fred Nolen, D.D.S.
Associate Professors Chester J. Atkin-

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 Samuel M. Vinocur, Ph.D.

Herbert W. Wohlwend, Ph.D.
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Lecturer Loren B. Jung, Ph.D.

Visiting Professor George S. Counts,
 Ph.D.

Elementary Education

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 Margaret Hill, Ed.D.
 J. Murray Lee, Ph.D.
 Willis Malone, Ph.D.
 Ted R. Ragsdale, Ph.D.
 Victor Randolph, Ph.D.
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inger, M.A. (*Emerita*)
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 Ernest Brod, Ed.D.
 John Richard Verduin, Ph.D.
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 Aileen Webber Parker, Ph.D.

J. W. Yates, Ed.D.
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 kruse, Ph.D.
 Bruce R. Amble, Ph.D.
 Donald M. Beggs, Ph.D.
 Gerald Blumenfeld, Ph.D.
 Harry Denzel, M.A.
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 Benson B. Poirier, Ed.D.
 Alice Rector, Ed.D.
 Beth W. Sulzer, Ph.D.
 George Roy Mayer, Ed.D.
 Louis Vieceli, M.Ed.

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 (*Acting Chairman*)
 Deward K. Grissom, Ed.D.
 John R. LeFevre, Ed.D.
Associate Professors A. Frank Bridges,
 H.S.D.
 Leslie Ralph Casey, Ed.D.
 Florence E. Denny, M.A. (*Emerita*)

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 Robert D. Russell, Ed.D.
 Andrew T. Vaughan, Ed.D.
Assistant Professors James E. Aaron,
 Ed.D.
 Frances K. Phillips, M.A.
Instructor Herbert L. Vogel, M.S.

Higher Education

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 I. Clark Davis, Ed.D.
 Jack W. Graham, Ph.D.
 John E. Grinnell, Ph.D. (*Emeritus*)
 John Hawley, Ph.D.
 John E. King, Ph.D.
 William J. McKeefery, Ph.D.
 (*Chairman*)

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Associate Professors Malvin E. Moore,
 Jr., Ed.D.
 Richard M. Thomas, Ed.D.
 Donald J. Tolle, Ed.D.
Assistant Professors Elwyn E. Zimmer-
 man, Ph.D.

Instructional Materials

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 (*Acting Chairman*)
 Paul R. Wendt, Ph.D.
Associate Professor Gordon K. Butts,
 Ed.D.
Assistant Professors Kathleen G. Fletcher,
 M.S.

Donald A. Ingli, Ph.D.
 Carl Planinc, Ed.D.
 Paul A. Scholl, Ed.D.
 Seth J. Edwards, Ph.D.
 Donald Winsor, Ed.D.
Instructors Dorothy Cox, M.A.

Physical Education for Men

<i>Professors</i> John LeFevre, Ed.D. Edward J. Shea, Ph.D. (<i>Chairman</i>) <i>Associate Professors</i> Leslie R. Casey, Ed.D. Glenn Martin, M.S. <i>Assistant Professors</i> C. C. Franklin, M.S. Larry A. Good, Ed.D. Norman C. Greene, M.S. Lynn C. Holder, M.S.	Ronald G. Knowlton, Ph.D. William T. Meade, M.S. Robert R. Spackman, M.S. John W. Stotlar, D.P.Ed. James J. Wilkinson, P.E.D. <i>Instructors</i> Bill Brown, M.S. John H. Hartman, M.S. Ted Okita, M.A. <i>Lecturers</i> Lewis Hartzog, M.S. George Iubelt, M.S.
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Physical Education for Women

<i>Professors</i> Dorothy Davies, Ed.D. (<i>Chairman</i>) Helen Zimmerman, Ph.D. <i>Associate Professor</i> Marjorie Bond Potter, Ph.D. <i>Assistant Professors</i> Dorothy Muzzey, M.S. Jean Stehr, M.A. JoAnne Thorpe, Ph.D.	Charlotte West, M.Ed. Winston G. Gray, Ph.D. <i>Instructors</i> Kay Brechtelsbauer, M.S. Sarah Davidson, M.S. Jacqueline Puhl, M.S. <i>Assistant Instructor</i> Margaret Clemens, Diploma <i>Lecturer</i> Shirley Wood, M.S.
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Recreation and Outdoor Education

<i>Associate Professors</i> William H. Ridinger, Ed.D. (<i>Chairman</i>) William H. Freeberg, D.Rec. Loren E. Taylor, Ed.D.	<i>Assistant Professor</i> William E. O'Brien, Ph.D. <i>Instructors</i> William R. Abernathy, M.S. Clifford Knapp, M.S.
---	---

Secondary Education

<i>Professors</i> Claude J. Dykhouse, Ph.D. Troy W. Edwards, Ed.D. Daryle E. Keefer, Ph.D. John D. Mees, Ed.D. Clarence D. Samford, Ph.D. (<i>Chairman</i>) Clarence W. Stephens, Ed.D. <i>Associate Professors</i> Robert L. Buser, Ed.D.	Ross Jean Fligor, Ph.D. John Richard Verduin, Ph.D. <i>Assistant Professors</i> Frank C. Adams, Ph.D. Arthur L. Aikman, Ph.D. Raymond P. DeJarnett, Ph.D. Billy G. Dixon, Ph.D. Roland Keene, Ed.D.
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Special Education

<i>Professor</i> James M. Crouner, Ph.D. (<i>Chairman</i>) <i>Associate Professors</i> Marvin Lee Joiner, Ph.D. B. Elizabeth McKay, Ph.D.	<i>Assistant Professors</i> Marjorie Stull, M.S. Thomas M. Shea, Ed.D. <i>Lecturer</i> Dan S. Rainey, M.S.
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School of Fine Arts

Art

<i>Professors</i> Burnett H. Shryock, Sr., M.A. Herbert L. Fink, M.F.A. (<i>Chairman</i>) <i>Associate Professors</i> Brent Kington, M.F.A. Lula D. Roach, M.A. (<i>Emerita</i>) Milton Sullivan	Nicholas Vergette, AID <i>Assistant Professors</i> Roy Abrahamson, Ed.D. Lawrence Bernstein, M.F.A. Violet B. Hill, M.A. Thomas Walsh, M.F.A. <i>Lecturer</i> Evert Johnson, M.A.
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Design

University Professor R. Buckminster Fuller
Assistant Professors John F. H. Loner-
 gan, B.A.
 Charles M. Pulley, B.S.
 Herbert Roan

Instructor Carl E. Bretscher, B.S.
Lecturers H. F. William Perk, A.B.
 (Chairman)
 Davis J. Pratt
 Harold Grosowsky

Music

Research Professor Marjorie Lawrence
Professors Steven Barwick, Ph.D.
 Fred H. Denker, Ph.D.
 Roderick Gordon, Ph.D.
 Robert Mueller, Ph.D.
 Robert W. House, Ed.D. (Chair-
 man)
Associate Professors William Betterton,
 Ph.D.
 Will Gay Bottje, D.M.A.
 Lawrence Intravaia, D.M.A.
 David McIntosh, M.S. (Emeritus)
 Wesley K. Morgan, Ph.D.
 Phillip H. Olsson, M.M.
 Robert Resnick, M.M.

Charles D. Taylor, Ed.D.
 William K. Taylor, M.M.
 John Wharton, M.M.
Assistant Professors Mary Jane Griz-
 zell, M.M.
 Elisabeth Hartline, M.M.
 George Hussey, M.A.
 Myron H. Kartman, D.M.A.
 Robert Kingsbury, M.M.
 Nicholas Koenigstein, M.M.
 Herbert Levinson, M.M.
 Melvin Siener, M.A.
 Marianne Webb, M.M.
 W. Kent Werner, Ph.D.
Instructor Helen M. Vogler, (Emerita)

School of Home Economics*Clothing and Textiles*

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 (Emerita)
Associate Professors Rose Padgett,
 Ph.D. (Chairman)
 Ritta Whitesel, M.A. (Emerita)

Thelma H. Berry, Ph.D.
Instructors Sue Ridley, M.S.
 Norman E. Slack, M.S.
 Lucy P. Stewart, M.S.

Food and Nutrition

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 (Chairman)
 Eileen E. Quigley, Ed.D.
Associate Professors Jennie Harper,
 Ph.D.

Irene R. Payne, Ph.D.
Assistant Professor Mary Louise
 Barnes, M.S. (Emerita)
Lecturer Miss Henrietta Becker, M.S.

Home and Family

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 (Chairman)
 Eileen E. Quigley, Ed.D.

Associate Professors George Carpenter,
 Ph.D.
 Michael Zunich, Ph.D.

Home Economics Education

Professor Anna Carol Fults, Ph.D.
 (Chairman)
Assistant Professor Dorothy Keenan,
 D.Ed.

Visiting Professor Opal T. Rhodes,
 Ed.D.

College of Liberal Arts and Sciences*Anthropology*

Professors Philip J. C. Dark, Ph.D.
 J. Charles Kelley, Ph.D.
 Charles H. Lange, Ph.D. (Chair-

man)
 Robert L. Rands, Ph.D.
 Walter W. Taylor, Ph.D.

Carroll L. Riley, Ph.D.
Associate Professor Jerome S. Handler,
 Ph.D.
Assistant Professors Milton Altschuler,
 Ph.D.
 D. Lee Guemple, Ph.D.
 Bruce B. MacLachlan, Ph.D.

Joel M. Maring, Ph.D.
 Jon D. Muller, Ph.D.
Instructor Marie Doenges, M.A.

Adjunct Professor Adrianus A. Gerbrands, Ph.D.

Botany

Professors William D. Gray, Ph.D.
 Robert H. Mohlenbrock, Ph.D.
 (Chairman)
 Ladislao V. Olah, Ph.D.
 Jacob Verduin, Ph.D.
 John W. Voigt, Ph.D.
 Walter B. Welch, Ph.D. (Emeritus)
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 Ph.D.

Margaret Kaeiser, Ph.D.
 Oval Myers, Ph.D.
 Aristotel J. Pappelis, Ph.D.
 Walter E. Schmid, Ph.D.
Assistant Professors William M. Marberry, M.S.
 Lawrence Matten, Ph.D.
 Donald R. Tindall, Ph.D.
 Donald Ugent, Ph.D.

Chemistry

Professors Talbert W. Abbott, Ph.D.
 (Emeritus)
 Richard T. Arnold, Ph.D. (Chairman)
 James N. BeMiller, Ph.D.
 Roger E. Beyler, Ph.D.
 George E. Brown, Ph.D.
 Elbert H. Hadley, Ph.D.
 Robert W. MacVicar, Ph.D.
 Cal Y. Meyers, Ph.D.
 James W. Neckers, Ph.D. (Emeritus)
 Robert A. Scott, Ph.D. (Emeritus)
 Robert E. Van Atta, Ph.D.
 Kenneth A. Van Lente, Ph.D.
 John H. Wotiz, Ph.D.
Associate Professors Albert L. Caskey,

Ph.D.
 Herbert I. Hadler, Ph.D.
 J. Herbert Hall, Ph.D.
 Wilbur N. Moulton, Ph.D.
 Boris Musulin, Ph.D.
 Charles Schmulbach, Ph.D.
 Donald W. Slocum, Ph.D.
 Gerard V. Smith, Ph.D.
 Russell F. Trimble, Ph.D.
Assistant Professors Paul M. Anderson,
 Ph.D.
 Bruce Coxon, Ph.D.
 Stephen Darling, Ph.D.
 H. Frank Gibband, Ph.D.
 Conrad C. Hinckley, Ph.D.
 David Koster, Ph.D.
 James Tyrrell, Ph.D.

English

Research Professor Harry T. Moore,
 Ph.D.
Professors James W. Benziger, Ph.D.
 E. C. Coleman, Ph.D. (Emeritus)
 Hugh Duncan, Ph.D.
 William Evans, D.Ed.
 Joseph H. Friend, Ph.D.
 Thomas Kinsella
 Sidney Moss, Ph.D.
 Henry Dan Piper, Ph.D.
 Howard Schultz, Ph.D.
 William Simeone, Ph.D.
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Index

Index

A

Academic advisement, description, 21
Academic load, 33
Accounting: description, requirements, 45; course descriptions, 120; faculty, 221
Accreditation, University, 1
Admission of former students, description, 19
Admission of freshman, description, 17
Admission of international students, description, 19
Admission of transfer students, description, 18
Admission policies, requirements, and procedures, description, 17
Advanced placement, 29
Advanced standing program, General Studies, 29
Advisement, description, 21
Aerospace Studies: description, 8; course descriptions, 121
African Studies, description, 46
Agricultural Education, description, requirements, 46
Agricultural, general, description, requirements, 47
Agricultural Industries: description, requirements, 47; course descriptions, 122; faculty, 221
Air Force ROTC, faculty, 231
Alton, mentioned, 1
American, (Spanish), course descriptions, 157
Animal Industries: description, requirements, 48; course descriptions, 123; faculty, 221
Anthropology: description, requirements, 49; course descriptions, 125; faculty, 226
Apparel design, description, requirements, 75

Application for graduation, 32
Applied Science, course descriptions, 126
Applying for admission, description, 20
Area A: requirements, 37; course descriptions, 114
Area B: requirements, 37; course descriptions, 115
Area C: requirements, 38; course descriptions, 117
Area D: requirements, 38; course descriptions, 119
Area E: requirements, 38; course descriptions, 119
Art: description, requirements, 49; course descriptions, 128; faculty, 225
Asian Studies, description, 51
Associate degree, requirements, 35
Attendance, full-time, part-time, 34
Audit, 26

B

Baccalaureate degree, requirements, 35
Biology, course descriptions, 130
Biological Sciences, description, requirements, 51
Black American Studies, description, 9
Botany: description, requirements, 53; course descriptions, 130; faculty, 227
Business Teacher Education, description, requirements, 53
Bus transportation, description, 11

C

Campuses, mentioned, 1
Cap and gown, 32
Carbondale: area description, 2; campus described, 1; city description, location, 1
Center for English as a Second

Language, description, 12
 Center for Management Development, description, 9
 Central Publications, mentioned, 2
 Chemistry: description, requirements, 55; course description, 132; faculty, 227
 Chinese, course descriptions, 152
 Cinema and Photography: course descriptions, 134; faculty, 222
 Class standing, description, 28
 Clothing and Textiles: course descriptions, 135; faculty, 226
 College of Education: description, 4; requirements, concentrations listed, 41; faculty, 223
 College of Liberal Arts and Sciences: description, 6; requirements, concentrations listed, 42; faculty, 226
 Commencement, 32
 Community development, description, 56
 Community Development Institute, description, 9
 Cooperative Clinical Services, description, 12
 Counseling and Testing Center, description, 12
 Course descriptions, 113-219
 Crab Orchard lake, location, 2
 Credit, transfer, 18
 Credit, unit, 33

D

Dean of Students Office, description, 12
 Deferred grades, 26
 Degrees offered, listed, 35
 Degree, requirements, 35
 Design: description, requirements, 56; course descriptions, 137; faculty, 226
 Dietetics, description, requirements, 76
 Diploma, 33
 Division of Technical and Adult Education, description, 7
 Documents required for admission, description, 20

E

Early-Childhood Education Profes-

sional Quarter, 105
 Earth Science, description, requirements, 57
 East St. Louis, mentioned, 1
 Economics: description, requirements, 57; course descriptions, 137; faculty, 222
 Educational Administration and Foundations: course descriptions, 139; faculty, 223
 Edwardsville campus, mentioned, 1
 Elementary Education: description, requirements, 58; course descriptions, 140; faculty, 224
 Elementary Professional Quarter, 105
 Elementary, requirements, 58
 Eligibility for admission, description, 17
 Engineering: description, requirements, 59; course descriptions, 142
 Engineering Technology: description, requirements, 60; course descriptions, 145
 English: description, requirements, 61; course descriptions, 148; faculty, 227
 Entrance examination, described, 20
 Examinations, proficiency, description, 30
 Extension and correspondence credit, descriptions, 30
 Extension course fees, 31
 Extension, description, requirements, 80
 Extension services: description, 30

F

Faculty list, 221-231
 Fees and tuition, listed, 23
 Fees, extension course, 31
 Finance: description, requirements, 63; course descriptions, 150; faculty, 222
 Financial assistance, description, 12
 Food and Nutrition Science: description, requirements, 77; course descriptions, 151; faculty, 226
 Foods in business, description, requirements, 76

Foreign languages: description, requirements, 63; course descriptions, 152; faculty, 228
 Forestry: description, requirements, 67; course descriptions, 158; faculty, 221
 Former student admission, 19
 French, course descriptions, 152
 Freshman, admissions, description, 17
 Freshman convocation, 217
 Freshman Honors Seminar, course descriptions, 159
 Full-time attendance, 34

G

General foreign language courses, course description, 152
 General Home Economics, description, requirements, 77
 General Studies: flexibility, 38; requirements, 37
 General Studies Division, description, 3
 Geography: description, requirements, 68; course descriptions, 159; faculty, 228
 Geology: description, requirements, 70; course descriptions, 161; faculty, 228
 German, course descriptions, 153
 GI bill, 34
 Government: description, requirements, 71; course descriptions, 163; faculty, 228
 Gown and cap, 32
 Grading system, description, 25
 Graduation appeals committee, 33
 Graduation exercises, 33
 Graduation procedures, 32
 Greek, course descriptions, 154
 Growth, University, description, 2
 Guidance and Educational Psychology: course descriptions, 166; faculty, 224

H

Handicapped student services, description, 13
 Health Education: description, requirements, 72; course descriptions, 166; faculty, 224
 Health and Physical Development

(GSE), course descriptions, 119
 Health Science, description, requirements, 73
 Health Service: description, 13
 Higher Education: course descriptions, 168; faculty, 224
 High scholastic achievement recognition, 28
 High school advanced placement program, 29
 History: description, requirements, 74; course descriptions, 168; faculty, 229
 Home and Family: course descriptions, 171; faculty, 226
 Home Economics: description, requirements, 75; course descriptions, 172
 Home Economics Education: course descriptions, 172; faculty, 226
 Home Economics Honors Program, description, 75
 Honorary organizations, mentioned, 29
 Housing Business Services, description, 13
 Housing, description and regulations, 13
 Housing Information Office, description, 13

I

Iberian, (Spanish) course descriptions, 157
 Incomplete grades, 26
 Industrial Design, requirements, 81
 Industrial Technology: description, requirements, 80; course descriptions, 173
 Inter-American Studies, description, requirements, 81
 Intercul, description, 10
 Interior Design, description, requirements, 78
 International Student Services, description, 14
 Interpretation, requirements, 102
 International student admission, 19
 Institutes and Programs, description, 8
 Institution Management, description, requirements, 78
 Instructional Materials: descrip-

tion, 81; course descriptions, 174
Italian, course descriptions, 155

J

Journalism: description, requirements, 82; course descriptions, 175; faculty, 223

June commencement, 32

K

Kindergarten-Primary, requirements, 59

L

Labor Institute, description, 10

Latin, course descriptions, 155

Latin American Institute, description, 10

Library, Morris: mentioned, 2; description, 8

Linguistics, description, requirements, 83

Little Egypt, mentioned, 2

Little Grassy Facilities: mentioned, 1; described, 2

M

Management: description, requirements, 84; course descriptions, 177; faculty, 222

Man's Insights and Appreciations (GSC), course descriptions, 117

Man's Physical Environment and Biological Inheritance (GSA), course descriptions, 114

Man's Social Inheritance and Social Responsibilities (GSB), course descriptions, 115

Manufacturing, requirements, 81

Marketing: description, requirements, 84; course descriptions, 179; faculty, 222

Married student housing, description, 14

Mathematics: description, requirements, 85; course description, 180; faculty, 229

Merchandising, description, requirements, 79

Microbiology: description, requirements, 86; course descriptions, 182; faculty, 229

Military experience credit, 31

Music: description, requirements, 86; course descriptions, 183; faculty, 226

Music Education, description, requirements, 88

N

National Service Information, description, 14

Nursing, description, 89

O

Off-campus housing for single students, description, 14

Organization and Communication of Ideas (GSD), course description, 119

Orientation, description, 21

P

Part-time attendance, 34

Pass-Fail grading system, 27

Payment and refunding of fees, 24

Philosophy: description, requirements, 89; course descriptions, 186; faculty, 229

Photography: description, requirements, 90; course descriptions, 134

Physical Education: description, requirements, 90; men, course descriptions, 187; women, course descriptions, 190; faculty, 225

Physical examination, discussion, 20

Physics: description, requirements, 91; course descriptions, 192; faculty, 230

Physiology: description, requirements, 92; course descriptions, 194; faculty, 230

Placement Service, description, 14

Plant Industries: description, requirements, 93; course description, 195; faculty, 221

Portuguese, course descriptions, 155

Pre-College preparation, description, 40

Preprofessional programs, requirements, 36

Preprofessional courses, listed, 43

President's Scholar's Program: description, 10; mentioned, 29;

course descriptions, 197
 Probation, description, 31
 Procedure for admission to a teacher education program, 109
 Proficiency examinations, description, 30
 Professional Quarter Committee, 106
 Professional Quarter, description, 105
 Professional business core, description, 40
 Program flexibility, 29
 Psychology: description, requirements, 93; course descriptions, 197; faculty, 230
 Public Law 358, 34
 Publications, 2

R

Radio-Television: description, requirements, 94; course descriptions, requirements, 199; faculty, 223
 Reading Center, description, 15
 Recreation and Outdoor Education: description, requirements, 94; course descriptions, 201; faculty, 225
 Registration: description, 21; regulations, 22
 Rehabilitation, course descriptions, 202
 Religious Studies: description, requirements, 96; course descriptions, 203
 Romance Philology, course descriptions, 157
 Russian and East European Studies, description, 96
 Russian, course description, 155

S

Scholastic standing, description, 27
 Scholastic warning, 31
 School of Agriculture: description, 3; requirements, concentrations listed, 39; faculty, 221
 School of Business: description, 4; requirements, concentrations listed, 40; faculty, 221
 School of Communications: description, 4; requirements, concentra-

tions listed, 41; faculty, 222
 School of Fine Arts: description, 5; requirements, concentrations listed, 42; faculty, 225
 School of Home Economics: description, 5; requirements, concentrations listed, 42; faculty, 226
 School of Technology: description, 6; requirements, concentrations listed, 44; faculty, 231
 Secondary education: description, requirements listed, 97; course descriptions, 203; faculty, 225
 Secondary Professional Quarter, 105
 Secretarial Studies, requirements, 99
 Secretarial and Business Education: course descriptions, 204; faculty, 222
 Selective Service, 34
 Self-Instruction Center, description, 15
 S. I. U. Arena, mentioned, 2
 Sociology: requirements, 99; course descriptions, 205; faculty, 230
 Social Work, requirements, 99
 Spanish, course descriptions, 156
 Speech: description, requirements, 102; course descriptions, 210; faculty, 223
 Speech Pathology and Audiology: description, requirements, 103; course descriptions, 212; faculty, 223
 Special Concentration, 100
 Special Education: description, requirements, 100; course descriptions, 209; faculty, 225
 Special grading system, description, 27
 Standards for admission to a teacher education program, 108
 Standard high school certificate, description, 97
 Standard special certificate, description, 98
 Stenographic Service, description, 15
 Student activities, description, 15
 Student residency regulations, 24
 Student services, listed and described, 11

Student teaching prerequisites, 108
Student teaching, description, requirements, 105
Subject concentrations: listed, 44; described and requirements, 45-112
Subject-matter areas, listed, 113
Supervision and personnel, requirements, 81
Suspension, description, 31

T

Technical and Industrial Education: description, requirements, 109; course description, 213
Technical sales, requirements, 81
Theater: description, requirements, 110; course descriptions, 215; faculty, 223
Transfer students, admissions, 18
Transfer students and General Studies, 39
Transportation Institute, description, 11
Tuition and fees, listed, 23

U

Unauthorized withdrawal, 26
Unit of credit, 33

University Center, description, 15
University Convocations: requirement, 36; course descriptions, 217
University housing for single students, description, 14
University Extension Services, description, 7

V

Vocational home economics professional quarter, 106
Vocational agriculture professional quarter, 106
Vocational-Technical Institute, mentioned, 1; described, 12
Vocational homemaking, description, requirements, 79

W

Withdrawal from the University, 22
Withdrawal with failing grade, 26

Z

Zoology: description, requirement, 112; course description, 217; faculty, 230

Notes

Notes

Notes

Notes

Notes

Notes

Notes

Notes

Notes

Notes



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Southern Illinois University
Bulletin

Schedule of Classes
Edwardsville Campus

Fall Quarter, 1969



This Bulletin

contains the schedule of classes to be offered by the Edwardsville Campus for the fall quarter, 1969, at Edwardsville, Alton, and East St. Louis. It also provides information relative to admission, advisement, registration, and fees.

Schedule of Classes

Fall, 1969

Edwardsville Campus



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Contents

University Calendar	iii
Registration Calendars	iv
GENERAL INFORMATION	1
Guaranteed Center Schedules	1
Admission	1
Social Security Number	1
Required Tests	2
Advisement	2
Required Physical Examinations	2
Registration	3
New Students	3
Re-Entering Students	3
Current Students, Edwardsville Campus	3
Current Students, Carbondale Campus	4
Payment of Fees	4
Fees for a Regular Quarter	4
Late Registration Fee	5
Changing Fee Status	5
Academic Load	5
Prerequisites	6
Auditing of Courses	6
Registering for and Dropping Courses	6
Withdrawal from School	7
Cancellation of Registration	7
Personal Data Changes	7
Hospitalization	7
SCHEDULE OF CLASSES	9
Explanation of the Schedule	9
Final Examinations	11
Fall Classes	13

University Calendar

<i>SUMMER, 1969</i>	Quarter Begins	Tuesday, June 17 (Classes 4:30 P.M. or later)
	Independence Day Holiday	Friday, July 4
	Final Examinations	Monday–Friday, August 25–29
	Commencement (Edwardsville)	Friday, August 29
	Commencement (Carbondale)	Saturday, August 30
<i>FALL, 1969</i>	New Student Week	Sunday–Tuesday, September 21–23
	Quarter Begins	Wednesday, September 24 (Classes 4:30 P.M. or later)
	Thanksgiving Vacation	Tuesday, 10 P.M.– Monday, 8 A.M., November 25–December 1
	Final Examinations	Monday–Saturday, December 15–20
<i>WINTER, 1970</i>	Quarter Begins	Monday, January 5 (Classes 4:30 P.M. or later)
	Final Examinations	Monday–Saturday, March 16–21

Registration Calendars, Fall, 1969

EDWARDSVILLE CAMPUS

July 9–September 24.

General Studies Advisement, by appointment (call General Studies Office).

August 4–16.

Registration, by appointment. Mon.–Thurs. 8:00–11:00 A.M., 1:00–6:30 P.M.; Fri. 8:00 A.M.–12:00 noon; Sat. 8:00 A.M.–2:00 P.M.

August 18–26, September 3–5, 22–23.

Open registration. Mon.–Thurs. 8:00–11:00 A.M.; 1:00–6:30 P.M.; Fri.–Sat. 8:00 A.M.–12:00 noon.

September 24.

Central registration. 8:00 A.M.–6:30 P.M.

ALTON CENTER

Registration will be held in the Student Union.

September 13.

Open registration. 9:00 A.M.–3:00 P.M.

EAST ST. LOUIS CENTER

September 6.

Open registration. 9:00 A.M.–3:00 P.M.

ALL LOCATIONS

September 24.

Evening classes (4:30 P.M. or later) begin.

September 25.

Day classes begin.

October 1.

Last day to add a class.

October 8.

Last day to be eligible for a refund of fees.

October 22.

Last day to withdraw from a class without receiving a grade.

December 1.

Last day to withdraw from school or a class.

1 / General Information

THIS BULLETIN contains the schedule of classes to be offered at the Edwardsville Campus and the Alton and East St. Louis centers for the fall quarter of the 1969-70 school year. It also provides information relative to advisement and registration, fees, and allied information.

The Edwardsville Campus provides a full schedule of class offerings for day and evening students. Freshman and sophomore courses are scheduled for day and evening students at the Alton and East St. Louis centers.

Guaranteed Center Schedules

A program of Guaranteed Schedules for the centers has been established. Certain courses and sections at the centers are guaranteed on schedules extending through the fall, winter, and spring quarters. These classes will not be cancelled; they are coordinated to offer a variety of full-time academic programs for the incoming freshman as a day student, and they permit efficient progress for the new freshman evening student.

Classes at the centers marked with a + in the schedule are part of this program. For details concerning the full year's schedules, see the separate brochure for each center.

Admission

Inquiries concerning admission to Southern Illinois University should be directed to the Admissions Office at Edwardsville. Applications for admission are accepted at any time during the calendar year but should be initiated at least 30 days prior to the start of the quarter which the student plans to attend.

A student must be officially admitted to the University before registration for classes will be permitted. Students who have not completed the admission requirements by the first day of the quarter will not be permitted to register. A student, to be permitted to attend classes at Southern Illinois University, must have completed registration, which includes admission, advisement, sectioning, and payment of fees.

Social Security Number

Each student seeking admission to the University will need to present a social security number for identification purposes. Any local social security office can provide assistance in obtaining a number or replacing a lost card.

At Alton the social security office is at 1623 Washington Street; at East St. Louis the office is at 435 Missouri Avenue; at Edwardsville the Illinois State Employment Office, 111 West Vandalia, provides social security information.

Required Tests

Each student entering Southern Illinois University directly from high school is required to furnish to the University scores on the test battery administered by the American College Testing Program (A.C.T.). These tests are given at regional test centers throughout the United States in October, December, February, May, and August. Information and application blanks are normally available through the high school guidance director or principal, or may be obtained by writing directly to: American College Testing Program, Box 168, Iowa City, Iowa.

A student who finds it impossible to take the A.C.T. tests may have scores from the College Entrance Examination Board (C.E.E.B.) submitted. The specific scores, which must be submitted if the C.E.E.B. tests are submitted, are Scholastic Aptitude Test, English Composition Test, and Mathematics (Intermediate) Test. In order to have identical test data, a student who submits C.E.E.B. test data will be required to submit scores from the A.C.T. no later than one month after registration.

Transfer students are required to furnish A.C.T. scores to the Student Counseling and Testing Center. (A transcript of these scores is available by sending one dollar and a written request to the American College Testing Program in Iowa City.) If the scores are on file at the student's former school, a request should be made for their forwarding. Test scores are not normally sent with a person's transcript of grades and must be requested separately from the appropriate office at the former school. If the A.C.T. tests have not been taken, arrangements to do so should be made.

Advisement

The advisement system requires all new students to have initial advisement through the General Studies Advisement Office. These offices are maintained at each of the centers for the convenience of the student. Freshmen and sophomores will continue to be advised each quarter prior to registration. Following the student's declaring a major (between reaching 64 and 96 hours of credit), the student is assigned to an adviser in his concentration area. Each student is required to declare a concentration upon achieving 96 hours of credit. Probationary students are also required to receive advisement prior to registration.

Graduate students, both classified and unclassified, must have their schedule approved at the Graduate Office before registering.

Students with a declared major in the Education Division must receive advisement from the Division office prior to registering.

All students should arrange to have advisement early to be sure their schedules will be approved before their registration.

Required Physical Examinations

Each new student desiring to enroll at Southern Illinois University is required to have a physical examination completed prior to his initial registration for classes. A special medical form is provided which is to be completed by the student and his personal physician and returned to the University Health Service.

Registration

Students may register at Edwardsville for classes at any location (see Edwardsville Registration Calendar, p. iv). Students wishing classes at the Alton or East St. Louis Centers, or at a Center and at Edwardsville, may register at that Center during the periods listed on the applicable Registration Calendar. All General Studies students are required to have approval of their schedule by the General Studies Advisement Office.

Each classified graduate student must have his schedule approved by his adviser and the Dean of the Graduate School before registering for classes at the Enrollment Center. Unclassified graduate students need only the approval of the Dean of the Graduate School. Special cards for this purpose are available at the Graduate Office, 2202 General Offices and Services Building.

During the registration process the student goes to the enrollment office where the assignment is made to specific sections of the courses he is to take.

New Students

Students entering the University for the first time are permitted to register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admissions.

Dates for new undergraduate students, freshmen and transfer, will be selective ones in which the students are asked to come to the campus on specific registration dates as determined by the University. Students should not expect to be advised and registered on the same date they are admitted. Appointments for registration will be mailed from the Registrar's Office.

New graduate students after advisement may register during the registration period as shown on the Registration Calendars on page iv. Arrangements should be cleared with the Graduate School to assure that the appropriate adviser will be available before coming to the campus.

Re-Entering Students

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to register during the periods outlined in the Registration Calendar. Readmission must be completed prior to registration.

Current Students, Edwardsville Campus

For admittance to registration students previously enrolled must present their Southern Illinois University ID cards. No one will be permitted to register without an ID card. Each student currently registered in the University will be continued in his present course of study unless a change of concentration is made. A change of concentration is initiated with the chief academic adviser. The change should be made at the time of advisement; the registrar's copy of the change form should accompany the student's registration. A change of concentration made after a registration has been processed will not be reflected in the student's record until the next registration.

Upperclass students who have declared a concentration and who are currently registered in the University may be self-advised for registration purposes. This does not apply to Business Division or Education Division students. Academic advisement is available and is very desirable. The student should prepare his desired program of classes at each registration period and process through the sectioning area of the enrollment office in accordance with the time of his appointment in order to best achieve the desired schedule of classes and time periods.

Current Students, Carbondale Campus

A student currently enrolled in and attending classes on the Carbondale Campus who desires to register on the Edwardsville Campus will initiate his registration at the sectioning area of the enrollment center in Edwardsville in accordance with the registration calendar except that he may register on the first day of the quarter. Each student will complete the intra-university transfer data form to secure information necessary for the Edwardsville data processing center preparation of registration materials. The student who registers on the first day of the quarter should present his most recent grade report to confirm scholastic eligibility to register.

For the purpose of advisement, the student may wish to have a copy of his transcript sent to the Edwardsville Campus prior to registration.

Payment of Fees

All fees are payable at the time of registration. Upon payment of fees, the fee statement and receipt card will be stamped by the Business Office and returned to the student as a fee receipt. The card should be carried at all times. It serves as official authorization to attend classes as scheduled and must be presented to obtain books and activity cards and to process program changes.

Students unable to pay fees at the time of registration may secure short-term loans from the Student Work and Financial Assistance Office. This must be done before registering.

Fees for a Regular Quarter

The fee schedule is as follows: *

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident	\$22.00	\$45.00	\$67.00
Tuition Fee—Out of State Resident	(69.00)	(137.00)	(206.00)
Student Welfare and Recreation			
Building Trust Fund Fee	5.00	10.00	15.00
Book Rental Fee	3.00	6.00	8.00
Student Activity Fee	3.50	7.00	10.50
University Center Fee	5.00	5.00	5.00
Athletic Fund Fee	3.00	6.50	10.00
<i>Total</i> —Illinois Resident	<u>\$41.50</u>	<u>\$79.50</u>	<u>\$115.50</u>
<i>Total</i> —Out of State Resident	<u>(38.50)</u>	<u>(171.50)</u>	<u>(254.50)</u>

* Fees are subject to change whenever conditions make changes necessary.

Graduate students do not rent their textbooks and do not pay the book rental fee. They purchase their books.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status. Prior to registration this student will go to the Student Work and Financial Assistance Office to secure certification.

Late Registration Fee

The first day of a quarter is considered the last day of the regular registration period. Registrations thereafter, including those for classes "to be arranged" are considered late registrations and are assessed a late registration fee of \$5.00.

Changing Fee Status

Students making program changes which result in their changing from one fee status to a higher fee status will be assessed additional tuition and fees. Students changing from a higher fee status to a lower fee status may apply for a refund provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University are eligible for a refund. This is usually during the first ten days. For dates refer to the Registration Calendars on page iv.

Academic Load

The normal class load is 16 quarter hours for undergraduate students and 12 quarter hours for graduate students. The maximum load for both is 18 hours. A student with a 4.25 average or above for the preceding quarter may be allowed by written permission of the chief academic adviser or by the dean of his division to take as many as 21 hours. In no case may a student carry or be credited with more than 21 hours in any quarter. A student on probation may not take more than 14 quarter hours.

A person should not register for more than 8 hours if he is employed full time.

The Selective Service System requires a minimum of 12 hours for an undergraduate and 8 hours for a graduate to qualify for a student deferment. There is a further requirement that he complete 48 hours each year.

The National Defense Education Act requires a minimum of 12 hours to qualify for a student loan.

For students receiving benefits under the "GI Bill" (P.L. 358) the following regulations apply:

	<i>Undergraduate</i>	<i>Graduate</i>
Full benefits	14 or more hrs.	12 or more hrs.
$\frac{3}{4}$ benefits	10-13 hrs.	9-11 hrs.
$\frac{1}{2}$ benefits	7-9 hrs.	6-8 hrs.

Prerequisites

Students are responsible for checking course prerequisites in the undergraduate and graduate catalogs and in this class schedule. Those who do not have specific prerequisites for a course may register for it only if they have had a comparable course or have written consent of the instructor.

Auditing of Courses

A student may register for courses in an "audit" status. He receives no letter grade and no credit for such courses. An auditor's registration card must be marked accordingly. He pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter.

Registering for and Dropping Courses

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program adjustment be approved permitting registration in that class. A student is officially registered only for those courses and sections appearing on his registration cards. Changes can be made only after fees are paid and must be made through an official program change at the Enrollment Center.

A student desiring to make a program change must secure approval of his adviser. He will then go to the Enrollment Center. (A student at East St. Louis or Alton may initiate his request to drop a course by going to the General Office.) He is required to present his fee receipt program card and must complete the following procedure. (1) After having been cleared with the Enrollment Center, program changes for which a program change fee is assessed must be presented to the Business Office for payment. (2) The student immediately returns the program change to the Enrollment Center in the Registrar's Office for final processing. (3) A student has not completed his program change until he presents it to the Enrollment Center. **NO CHANGE IS OFFICIAL UNTIL THE PRECEDING PROCEDURE IS COMPLETED.**

A student who finds it necessary to make an adjustment to his program by adding or dropping a course may do so during normal office hours at the Edwardsville Enrollment Office. (No changes will be made on the first day of the quarter.) A program adjustment must be made to drop or add a course. A student may not drop a course merely by stopping attendance. Failure to officially drop a course may result in academic penalty.

Withdrawal from School

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the Registration Calendar in this bulletin for the specific dates concerning withdrawal and refunding of fees.

A student who registers and then finds that he cannot attend school must also officially withdraw from school. He may do this by asking the Student Affairs Division to initiate official withdrawal action for him. This must be done by the end of the first two weeks if he expects to get a refund.

Cancellation of Registration

A registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Director of Student Affairs.

Personal Data Changes

Changes in personal data should be reported promptly. Types of change and method of reporting are:

1. ADDRESS CHANGES. Should be reported immediately either at the time of registration or at the Registrar's Office.
2. NAME CHANGES. Should be made at the Registrar's Office. Verification is required.
3. MARITAL STATUS CHANGES. Should be made at the Registrar's Office.
4. LEGAL RESIDENCE CHANGES (whether an Illinois or out-of-state resident.) Must be requested by completion of the *Application to be Classified an Illinois Resident* form in the Registrar's Office. Before the change is made the student must have met the regulations governing residency status as established by the Board of Trustees.

Hospitalization

Health and hospitalization insurance is offered to all students. Cost of the insurance is \$9.00 per quarter for single and \$28.20 per quarter for family plan. This insurance is available at the time of registration.



2 / Schedule of Classes

Except for the Guaranteed Center Schedules, the University reserves the right to cancel, combine, divide, or limit enrollment in any class or classes; to change the date, time, or place of meeting; to make any other revisions in these course offerings which may become desirable or necessary; and to do so without notice and without incurring obligation.

Explanation of the Schedule

Courses are listed numerically within each subject-matter area. The entry for each course is arranged as follows:

First Line: The course's identification number is followed by the number of quarter hours of credit and the descriptive title. The prerequisites, if any, appear in brackets after the title or on the line immediately below the title.

Section-Number Lines: The first column lists the section numbers. Those sections offered at Edwardsville always begin with 0; those sections offered at Alton always begin with 2; those sections offered at East St. Louis always begin with 4. Following each section number is the time the class begins, between 8:00 A.M. and 4:20 P.M. for daytime classes. An ending time is listed only if the class period is longer than 50 minutes. The section number of each evening class has the letter E prefixed. A + indicates a section which is part of the Guaranteed Center Schedule and is not subject to cancellation. The days when the class meets, the place where it meets, and the instructor's last name complete the entry.

The course numbering system is as follows:

000-099 Courses not properly falling in the following categories

100-199 For freshmen

200-299 For sophomores

300-399 For juniors and seniors

400-499 For seniors and graduate students

500-600 For graduate students only

Students registering for courses listed as TBA (to be arranged) should consult the instructor indicated, or the faculty office if no instructor is listed, to determine time and place of meeting.

The following list of building abbreviations will help in the location of classrooms.

ANA	—Annex A—Alton
CB	—Communications Bldg.—Edwardsville
ESL	—East St. Louis Center
Gym	—Gymnasium—Alton
LB	—Lovejoy Memorial Library—Edwardsville
PB	—John Mason Peck General Classroom Building—Edwardsville

SCI —Science Building—Alton
SL —Science Laboratory Building—Edwardsville
UC —University Center—Edwardsville
Wagner —Wagner Building—Edwardsville
Pract Ctr—Practicum Center—Edwardsville

Final Examination Schedule, Fall Quarter, 1969

Dec. 15-20, 1969

	Mon. Dec. 15	Tues. Dec. 16	Wed. Dec. 17	Thurs. Dec. 18	Fri. Dec. 19	Sat. Dec. 20
8:00 to 9:40	All classes beginning at 8:30, except Tu and/or Th only	Classes beginning at 8:30 Tu and/or Th only	Classes beginning at 9:30 Tu and/or Th only	All classes beginning at 9:30, except Tu and/or Th only	Multiple Section Block (GSA 201a) See Announcement	At regular class sessions
10:00 to 11:40	Classes beginning at 10:30 Tu and/or Th only	All classes beginning at 11:30, except Tu and/or Th only	All classes beginning at 10:30, except Tu and/or Th only	Classes beginning at 11:30 Tu and/or Th only	Make-up	
12:20 to 2:00	All classes beginning at 1:30, except Tu and/or Th only	All classes beginning at 12:30, except Tu and/or Th only	Multiple-Section Block (Speech) See Announcement	Classes beginning at 1:30 Tu and/or Th only	Classes beginning at 12:30 Tu and/or Th only	
2:20 to 4:00	Classes beginning at 2:30 Tu and/or Th only	Classes beginning at 3:30 Tu and/or Th only	All classes beginning at 3:30, except Tu and/or Th only	All classes beginning at 2:30, except Tu and/or Th only	Make-up	
Evening Classes	At regular sessions					



101a-5	Introduction to Physical Science [Math 101 or satisfactory score on placement test] Student enrolls in one lecture and one lab.	Lect A	9:30	MTWThF	SL 1105
		Lect B	10:30	MTWThF	SL 1105
		Lect C	1:30	MTWThF	SL 1105
		Lect D	2:30	MTWThF	SL 1105
		001	8:30-10:20	M	SL 1217
		002	10:30-12:20	M	SL 1217
		003	12:30-2:20	M	SL 1217
		004	2:30-4:20	M	SL 1217
		005	8:30-10:20	T	SL 1217
		006	10:30-12:20	T	SL 1217
		007	12:30-2:20	T	SL 1217
		008	2:30-4:20	T	SL 1217
		009	8:30-10:20	W	SL 1217
		010	10:30-12:20	W	SL 1217
		011	12:30-2:20	W	SL 1217
		012	2:30-4:20	W	SL 1217
		013	8:30-10:20	Th	SL 1217
		014	10:30-12:20	Th	SL 1217
		015	12:30-2:20	Th	SL 1217
		016	2:30-4:20	Th	SL 1217
		017	8:30-10:20	F	SL 1217
		018	10:30-12:20	F	SL 1217
		019	12:30-2:20	F	SL 1217
		020	2:30-4:20	F	SL 1217
		021	8:30-10:20	S	SL 1217
		022	10:30-12:20	S	SL 1217
		e023	6:30-8:20	M	SL 1217
		e024	6:30-8:20	T	SL 1217
101c-3	Introduction to Physical Science [101a]	+201	8:30 9:30-11:20	MTWThF T	SCI 200 SCI 007
		001	8:30	T Th	SL 3114
		002	8:30-10:20	M	SL 1209
			8:30	T Th	SL 3114
		003	8:30-10:20	W	SL 1209
			8:30	T Th	SL 3114
			8:30-10:20	F	SL 1209

GENERAL STUDIES AREA A (GSA)

1101c-3	Introduction to Physical Science	004	8:30	T Th	SL 3114	Marlow
			12:30-2:20	M	SL 1209	
005		8:30	T Th	SL 3114	Clements	
		12:30-2:20	W	SL 1209		
006		8:30	T Th	SL 3114		
		12:30-2:20	F	SL 1209	Marlow	
007		8:30	T Th	SL 3114		
		2:30-4:20	M	SL 1209		
008		8:30	T Th	SL 3114	Baker	
		2:30-4:20	W	SL 1209		
009		8:30	T Th	SL 3114		
		2:30-4:20	F	SL 1209	Thompson	
001	The Earth and Its Environment	8:30	MTWTF	PB 0306		Marlow
		8:30-10:20	F	SL 1215		
002		9:30	MTWTF	SL 3114		
		11:30-1:20	Th	SL 1215		
003		9:30	MTWTF	SL 3114		Marlow
		8:30-10:20	Th	SL 1215		
004		11:30	MTWTh	PB 1410		
		11:30-1:20	F	SL 1215		
005		1:30	MTWTF	PB 1316	Thompson	
	1:30-3:20	F	SL 1215			
006	2:30	MTWTh	PB 1410	Marlow		
	1:30-3:20	Th	SL 1215			
e007	6:00-8:20	T Th	SL 1215			
+201		9:30	MTW	ANA 110		
		8:30-10:20	Th	ANA 110		
+401		9:30	MTW	ESL A		
		8:30-10:20	T	ESL A		
001	The Earth and Its Environment	9:30	TWThF	PB 1410	Miller	
		8:30-10:20	T	SL 1215		
002		9:30	TWThF	PB 1410	Miller	
		8:30-10:20	M	SL 1215		
003		12:30	TWThF	SL 3114	Yarbrough	
		11:30-1:20	T	SL 1215		
004		12:30	TWThF	SL 3114	Yarbrough	
		11:30-1:20	M	SL 1215		

[High school chemistry] Student enrolls in one lecture and one lab. Lectures will be given by CC-TV. Specific room assignment for lectures A,B, C,D, and E will be made by the Enrollment Center at the time of registration.

Lect A	8:30	TBA	MWF	TBA
Lect B	8:30	TBA	TThS	TBA
Lect C	12:30	TBA	MWF	TBA
Lect D	3:30	TBA	MWF	TBA
Lect eE	6:30-8:15	TBA	T	TBA
	6:30	TBA	Th	TBA
001	8:30-10:20	SL 2211	M	SL 2211
002	10:30-12:20	SL 2211	M	SL 2211
003	12:30-2:20	SL 2211	M	SL 2211
004	2:30-4:20	SL 2211	M	SL 2211
e005	4:30-6:20	SL 2211	M	SL 2211
006	8:30-10:20	TBA	M	TBA
007	10:30-12:20	TBA	M	TBA
008	12:30-2:20	TBA	M	TBA
009	2:30-4:20	TBA	M	TBA
e010	4:30-6:20	TBA	M	TBA
011	8:30-10:20	SL 2211	T	SL 2211
012	10:30-12:20	SL 2211	T	SL 2211
013	12:30-2:20	SL 2211	T	SL 2211
014	2:30-4:20	SL 2211	T	SL 2211
e015	4:30-6:20	SL 2211	T	SL 2211
016	8:30-10:20	TBA	T	TBA
017	10:30-12:20	TBA	T	TBA
018	12:30-2:20	TBA	T	TBA
019	2:30-4:20	TBA	T	TBA
e020	4:30-6:20	TBA	T	TBA
021	8:30-10:20	SL 2211	W	SL 2211
022	10:30-12:20	SL 2211	W	SL 2211
023	12:30-2:20	SL 2211	W	SL 2211
024	2:30-4:20	SL 2211	W	SL 2211
e025	4:30-6:20	SL 2211	W	SL 2211
026	8:30-10:20	TBA	W	TBA
027	10:30-12:20	TBA	W	TBA
028	12:30-2:20	TBA	W	TBA
029	2:30-4:20	TBA	W	TBA
e030	4:30-6:20	TBA	W	TBA
031	8:30-10:20	SL 2211	Th	SL 2211
032	10:30-12:20	SL 2211	Th	SL 2211
033	12:30-2:20	SL 2211	Th	SL 2211
034	2:30-4:20	SL 2211	Th	SL 2211
e035	4:30-6:20	SL 2211	Th	SL 2211
036	8:30-10:20	TBA	Th	TBA

GENERAL STUDIES AREA A (GSA)

201 a-4	Man's Biological Inheritance	037	10:30-12:20	Th	TBA
		038	12:30-2:20	Th	TBA
		039	2:30-4:20	Th	TBA
		e040	4:30-6:20	Th	TBA
		041	8:30-10:20	F	SL 2211
		042	10:30-12:20	F	SL 2211
		043	12:30-2:20	F	SL 2211
		044	2:30-4:20	F	SL 2211
		e045	4:30-6:20	F	SL 2211
		046	8:30-10:20	F	TBA
		047	10:30-12:20	F	TBA
		048	12:30-2:20	F	TBA
		049	2:30-4:20	F	TBA
		e050	4:30-6:20	F	TBA
		051	8:30-10:20	S	SL 2211
		052	11:30-1:20	S	SL 2211
		053	1:30-3:20	S	SL 2211
		056	8:30-10:20	S	TBA
		057	11:30-1:20	S	TBA
		058	1:30-3:20	S	TBA
		e060	6:30-8:20	M	SL 2211
		e061	8:25-10:15	T	SL 2211
		e062	6:30-8:20	W	SL 2211
		e063	7:30-9:20	Th	SL 2211
		e064	7:30-9:20	Th	TBA
		+401	1:30	MWF	ESL A
			2:30-4:20	W	ESL O
312-3	Conservation of Natural Resources	001	9:30	T	PB 0306
			8:30-10:20	Th	PB 0306
		002	9:30	MWF	PB 0306
		003	12:30	T	PB 1410
			12:30-2:20	Th	PB 1410
		004	12:30	TWTh	PB 1412
		005	1:30	TThF	PB 1315
		006	8:05-9:20	T Th	PB 1410
		e007	8:30-9:45	M W	PB 1410
322-3	Introduction to Rocks and Minerals	001	10:30	MTWTh	SL 1215
328 a	Human Reproduction and Development [201b]	001	2:30	MWF	PB 0312
					N. Parker
					Yarbrough
					Bridwell
					Roth
					Gore
					Miller
					Lossau
					Gore

330-3	Weather	001 002 e003	10:30 12:30 6:30-8:20	MTWF MTWF M W	PB 0306 PB 0306 PB 0306	Kazeck Bridwell
331-3	Climate	001 002 e003 e004	11:30 2:30 6:30-8:20 6:30-8:20	MTWF MTWF T Th M W	PB 0306 PB 0306 PB 0306 SL 1215	Baker Thompson
350-3	Atomic Energy	001 002	8:30 11:30	MWF MWF	SL 1210 SL 1210	
352-3	Radiation and Life	001	1:30	MWF	SL 2224	
356-3	Astronomy	001 002 003	10:30 12:30 1:30	MWF MWF MWF	SL 1210 SL 1210 SL 1210	
363a-3	Philosophy of Science (Same as GSC 363a) [Completion second-level GSA]	001 002 003	9:30 10:30 10:30 10:30	MTTh MTTh M T Th	PB 0307 PB 1308 PB 0406 PB 0307	Emblom Emblom
365-3	Human Origins	001	3:30-5:15	M W	PB 1414	Denny
MAN'S SOCIAL INHERITANCE AND SOCIAL RESPONSIBILITIES (GSB)						
101b-4	Survey of Western Tradition	001 002 003 004 005 006 007	8:30 8:30 8:30 8:30 8:30 8:30 8:30 8:30	MWF T MWF Th MWF T MWF Th MWF T MWF Th MWF T	PB 1402 PB 0307 PB 1402 PB 0307 PB 1402 PB 0309 PB 1402 PB 0309 PB 1402 PB 0408 PB 1402 PB 0408 PB 1402 PB 1307	Haas Haas Haas Haas Haas Haas Haas Haas

101b-4	Survey of Western Tradition	008	9:30	MWF	PB 1402	Gallaher
			9:30	T	PB 0411	
		009	9:30	MWF	PB 1402	Gallaher
			9:30	Th	PB 0411	
		010	9:30	MWF	PB 1402	Gallaher
			9:30	T	PB 0412	
		011	9:30	MWF	PB 1402	Gallaher
			9:30	Th	PB 0412	
		012	9:30	MWF	PB 1402	Gallaher
			9:30	T	PB 3102	
		013	9:30	MWF	PB 1402	Gallaher
			9:30	Th	PB 3102	
		014	9:30	MWF	PB 1402	Gallaher
			9:30	T	PB 2413	
		015	12:30	MWF	PB 1402	Haas
			12:30	T	SL 0226	
		016	12:30	MWF	PB 1402	Haas
			12:30	Th	PB 0302	
		017	12:30	MWF	PB 1402	Haas
			12:30	T	PB 1302	
		018	12:30	MWF	PB 1402	Haas
			12:30	Th	PB 0411	
		019	12:30	MWF	PB 1402	Haas
			12:30	T	PB 2415	
		020	12:30	MWF	PB 1402	Haas
			12:30	Th	PB 1302	
		021	12:30	MWF	PB 1402	Haas
			12:30	T	PB 3102	
		022	2:30	MWF	PB 1402	Kimball
			2:30	T	PB 0302	
		023	2:30	MWF	PB 1402	Kimball
			2:30	Th	PB 0302	
		024	2:30	MWF	PB 1402	Kimball
			2:30	T	PB 0304	
		025	2:30	MWF	PB 1402	Kimball
			2:30	Th	PB 0304	
		026	2:30	MWF	PB 1402	Kimball
			2:30	T	PB 2306	
		027	2:30	MWF	PB 1402	Kimball
			2:30	Th	PB 2306	
		028	2:30	MWF	PB 1402	Kimball
			2:30	T	PB 2413	

103b-4	Sociology-Economics	001 10:30 002 2:30-4:20 e003 6:30-8:20	MWThF T Th T Th	PB 1402 PB 1315 PB 3305	
		+e201 6:30-8:20	T Th	ANA 101	
		+e401 6:30-8:20	M W	ESL B	
201a-4	The Individual and His Cultural Environment	001 9:30 002 10:30 003 11:30 004 1:30 005 2:30	MTWTh MTWTh MTWTh MTWTh MTWTh	PB 1316 PB 1316 PB 1316 PB 0312 PB 1316	Voget Denny Maloney Coppinger Hayes
		+201 10:30	MTWTh	ANA 101	Coppinger
		+401 11:30	MTWTh	ESL B	Hayes
201c-4	The Individual and His Cultural Environment	001 10:30-12:20 002 11:30-1:20 003 2:30-4:20 004 1:30-3:20 005 9:30	T Th T Th T Th M W MTWTh	SL 3114 SL 1105 PB 1402 PB 1315 PB 1315	Ferguson Kohfeld Daugherty McCall Kleinman
		+401 6:30-8:20	M W	ESL D	
203a-4	American Politics in the World Environment	001 9:30 002 12:30 003 11:30 004 2:30-4:20 e005 6:30-8:20	TWThF TWThF MTWTh T Th T Th	PB 0312 PB 0312 PB 1311 PB 0312 PB 1311	Lee Tubbesing Goodman Wides Feeney
		+201 12:30	MTWTh	ANA 101	Glaser
		+401 10:30	MTWTh	ESL B	Jachim
203b-4	American Politics in the World Environment	001 10:30 002 1:30	TWThF MTWF	PB 1410 PB 1410	Lampe Lampe
300a-3	History of the United States	001 8:05-9:20 002 8:30 003 9:30 004 1:30	T Th MWF TThS MWF	PB 2403 PB 2403 PB 1307 PB 2403	Nordhauser Wilton Nordhauser Branz

300b-3	History of the United States	005 2:30 006 3:30 e007 6:30-7:45 e008 6:30-7:45	MWF MWF MW T Th	PB 2403 PB 2403 PB 2403 PB 2403	Branz Barnhart Oldani Weiss
		001 8:30 002 10:30 003 11:30 e004 6:30-7:45	MWF MWF MWF T Th	PB 1307 PB 2403 PB 2403 PB 1306	McCurry Riddleberger Branz Barnhart
300c-3	History of the United States	001 12:30 002 2:30	MWF MWF	PB 2403 PB 1307	Weiss Grant
311-3	Economic Development of the United States [103b or 101c]	001 10:30-11:50	T Th	LB 0051	
331-3	The American Educational Systems Section 002 lecture and discussion conducted in Spanish.	001 8:30 002 8:05-9:20 003 10:30 004 10:30-11:45 005 11:30-12:45 006 1:30 007 1:30-2:45 008 2:30-3:45 e009 5:30-8:20 010 9:30-12:20	MWF T Th MWF T Th T Th MWF T Th T Th Th S	PB 3302 PB 3302 PB 1307 PB 1307 PB 0403 PB 3302 PB 3302 PB 1414 PB 3302 PB 3302	Allsup Taylor Lucas Taylor Richards Lucas Taylor
		e201 5:30-8:20	T	SCI 003	
341-3	Marriage	e401 5:30-8:20	W	ESL C	Hildebrand
		001 10:30 e002 5:30-8:20	MTW M	PB 1414 PB 1414	Taylor Biggs
388-3	Communism [Completion second-level GSB]	001 1:30 1:30 002 2:30	M T Th MTTh	PB 1308 PB 0408 PB 0408	Keene Keene Keene
MAN'S INSIGHTS AND APPRECIATIONS (GSC)					
151-3	Introduction to Poetry [GSD 101b]	001 8:05-9:20 002 8:30	T Th MWF	PB 3422 PB 3422	

151-3	Introduction to Poetry	003 9:30 004 10:30 005 11:30 006 12:30-1:45 007 12:30 008 1:30 009 2:30 010 2:30 011 3:30 012 3:30 e013 8:30-9:45	MWF MWF MWF T Th MWF MWF MWF MWF MWF T Th	PB 3422 PB 3422 PB 3422 PB 3422 PB 3422 PB 3422 PB 0412 PB 3422 PB 0302 PB 3422	
155-5	Introduction to Art	001 8:30 002 10:30 003 1:30 +401 12:30-2:00	MTWThF MTWThF MTWThF MWF	LB 0044 LB 0044 LB 0044 ESL B	Smith Jacobson
156-5	Introduction to Music History-Literature	001 1:30 +e201 6:00-8:20	MTWThF T Th	PB 1402 SCI 102	Henderson Kresteff
157-5	The Dramatic Media: Theater, Cinema, and Television	001 9:30 +201 1:30-3:00	MTWThF MWF	LB 0044 ANA 101	Birdman Archer
252-4	Logic [Completion first-level GSC]	001 8:05-9:20 8:30 002 8:05-9:20 8:30 003 8:05-9:20 9:30 004 8:05-9:20 9:30 005 8:05-9:20 9:30 006 8:05-9:20 9:30 007 10:30 10:30 008 10:30 10:30	T Th W T Th W T Th T T Th T T Th W T Th W MWF Th MWF Th	SL 1105 PB 0302 SL 1105 PB 0413 SL 1105 SL 1225 SL 1105 SL 3225 SL 1105 PB 0307 SL 1105 PB 0403 SL 3114 PB 0306 SL 3114 PB 0408	Glossop Glossop

Object Number	Object Name	Accession Number	Material	Dimensions (cm)	Weight (g)	Notes
009	Glossop	SL 3114	MWF	10:30		
010	Glossop	PB 1414	Th	10:30		
011	Glossop	SL 3114	MWF	10:30		
012	Glossop	PB 2410	W	11:30		
013	Glossop	SL 3114	MWF	10:30		
014	Glossop	PB 0413	W	11:30		
015	Glossop	SL 3114	MWF	10:30		
016	Glossop	PB 1308	W	11:30		
017	Glossop	SL 3114	M	12:30		
018	Glossop	PB 1402	T Th	12:30		
019	Glossop	PB 0412	F	12:30		
020	Glossop	SL 3114	M	12:30		
021	Glossop	PB 1402	T Th	12:30		
022	Glossop	PB 1316	Th	1:30		
023	Glossop	SL 3114	M	12:30		
024	Glossop	PB 1402	T Th	12:30		
025	Glossop	PB 0309	F	1:30		
026	Glossop	SL 3114	M	12:30		
027	Glossop	PB 1402	T Th	12:30		
028	Glossop	PB 0412	F	1:30		
029	Glossop	PB 1312	MTThF	9:30		
030	Glossop	PB 1312	MTThF	2:30		
031	Glossop	PB 0304	M W	8:30-10:20		
032	Glossop	SCI 002	MTThF	9:30		
033	Glossop	PB 1311	MTThF	8:30		
034	Glossop	PB 1414	MTThF	8:30		
035	Glossop	PB 0403	MTThF	9:30		
036	Glossop	PB 0403	MTThF	10:30		
037	Glossop	PB 0314	MTThF	11:30		
038	Glossop	PB 1311	MTThF	12:30		
039	Glossop	PB 0314	MTThF	1:30		
040	Glossop	PB 1311	MTThF	2:30		
041	Glossop	PB 1311	MTThF	3:30		
042	Glossop	PB 1311	M W	6:30-8:20		
043	Glossop	ANA 101	M W	8:30-10:20		

254-4	Philosophical Masterpieces [Completion first-level GSC]	001	8:30	MTThF	PB 0413	F. Marti F. Marti Murdoch Paxson Murdoch Paxson
		002	9:30	MTThF	PB 0413	
		003	10:30	MTThF	PB 0413	
		004	11:30	MTThF	PB 0413	
		005	11:30	MTThF	PB 1308	
		006	12:30	MTThF	PB 0413	
		007	12:30	MTThF	PB 1414	
		008	1:30	MTThF	PB 0413	
		e009	6:30-8:20	M W	PB 0413	
		+e201	6:30-8:20	T Th	ANA 110	
313-3	Folklore [253 or 254]	001	1:30	M	PB 1313	Oldani
			1:30	W F	PB 1309	
315-3	Studies in Biography [253 or 254]	e001	6:30-7:45	M W	PB 2411	Steinman
325-3	Afro-American Literature [253 or 254]	001	11:30	MWF	PB 0406	Zanger
333-3	The Bible as Literature [Completion second-level GSC]	001	10:30	TThF	PB 0406	Murdoch
335-3	Studies in Short Fiction [253 or 254]	001	2:30-3:45	T Th	PB 1308	
		e002	6:30-7:45	M W	PB 1308	
337-3	The English Language Heritage [253 or 254]	001	2:30-3:45	T Th	PB 1309	Collins
339-3	Classical Mythology and Its Influence [253 or 254]	001	9:30	MWF	PB 0309	Drake
345b-3	Masterpieces of World Literature [Completion second-level GSC]	001	8:30	MWF	PB 0309	Guenther
354a-3	History of the Theater	001	9:30	MWF	PB 0304	Vilhauer
354b-3	History of the Theater	001	10:30	MWF	PB 0304	Birdman
363a-3	Philosophy of Science (Same as GSA 363a) [Completion second-level GSC]	001	9:30	MTTh	PB 0307	Emblom Emblom
		002	10:30	MTTh	PB 1308	
		003	10:30	M	PB 0406	
370a-3	American Art	001	2:30-3:45	T Th	PB 0307	Hilberry

101 a-3	English Composition		
029	11:30	MWF	PB 1302
030	11:30	MWF	PB 1309
031	11:30	MWF	PB 1312
032	12:30-1:45	T Th	PB 3409
033	12:30	MWF	PB 2414
034	12:30	MWF	PB 1302
035	12:30	MWF	PB 1312
036	12:30	MWF	PB 3102
037	1:30	MWF	PB 2415
038	1:30	MWF	PB 2414
039	1:30	MWF	PB 1414
040	1:30	MWF	PB 3102
041	1:30	MWF	PB 1312
042	2:05-3:20	T Th	PB 2415
043	2:05-3:20	T Th	PB 3422
044	2:30	MWF	PB 2415
045	2:30	MWF	PB 2414
046	2:30	MWF	PB 2413
047	2:30	MWF	PB 2411
048	2:30	MWF	PB 3102
049	2:30	MF	PB 0302
	2:30	W	PB 0408
050	3:30	MTTh	PB 2413
051	3:30	MTTh	PB 2409
052	3:30	MTTh	PB 2406
053	3:30	MTTh	PB 0309
054	3:30	MTTh	PB 0307
055	3:30	MWF	PB 2414
056	3:30	MWF	PB 2415
057	3:30	MWF	PB 3409
e058	4:30-5:45	T Th	PB 3409
e059	6:30-7:45	T Th	PB 3409
e060	8:30-9:45	T Th	PB 3409
+201	8:30	MWF	ANA 110
+202	9:30	MWF	ANA 101
+203	10:30	MWF	ANA 110
+e204	6:30-7:45	MW	ANA 110
+e205	6:30-7:45	T Th	ANA 108
+e206	8:30-9:45	MW	ANA 110
+e207	8:30-9:45	T Th	ANA 110

101b-3	English Composition [101a]	+401 +402 +e403 +e404 +e405	12:30 2:30 6:30-7:45 8:30-9:45 8:30-9:45	MWF MWF T Th M W T Th	ESL C ESL A ESL B ESL A ESL A
		001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 e018	8:05-9:20 8:05-9:20 8:30 8:30 9:30-10:45 9:30 10:30 10:30 11:05-12:20 11:30 11:30 12:30 12:30 1:30 1:30 2:05-3:20 2:30 6:30-7:45	T Th T Th MWF MWF T Th MWF MWF MWF T Th MWF MWF MWF MWF MWF T Th MWF T Th	PB 3409 PB 2415 PB 3409 PB 2415 PB 3409 PB 3409 PB 3409 PB 2415 PB 3409 PB 3409 PB 2415 PB 3409 PB 2415 PB 0306 PB 3409 PB 3409 PB 3409 PB 1309
		+e201	6:30-7:45	T Th	ANA 100
103-3	Oral Communication of Ideas	001 002 003 004 005 006 007 008	8:30 8:30 8:30 8:30 9:30 9:30 9:30 9:30 10:30 11:30 11:30 11:30 11:30	M W F T Th F M W F T Th F MWF MWF M W F T Th F	White White Branham St. Onge Stoppe Stoppe

103-3	Oral Communication of Ideas	009	12:30	M F	PB 1412	Vilhauer
		010	12:30	W	PB 1311	Robinson
		011	12:30	M W	LB 0051	Robinson
			12:30	F	PB 2304	
			12:30	T Th	LB 0051	
		012	12:30	F	PB 2304	
		013	12:30	M W F	PB 2413	
		014	12:30-1:45	T Th	PB 2413	Hawkins
			1:30	M W	LB 0051	Robinson
		015	1:30	F	PB 2304	Robinson
			1:30	T Th	LB 0051	
		016	1:30	F	PB 2304	
			1:30	M W	PB 1302	Glenn
		017	1:30	F	PB 1412	Glenn
			1:30	T Th	PB 1302	
		018	1:30	F	PB 1412	
		019	2:30-3:45	M W F	PB 2413	Mulvany
		020	2:30	T Th	PB 1307	Carey
			2:30	M W	LB 0051	Glenn
		021	2:30	F	PB 2304	
			2:30	T Th	LB 0051	Glenn
		e022	2:30	F	PB 2304	
		e023	6:30-7:45	M W	PB 2406	Salden
		024	8:30-9:45	M W	PB 0302	Salden
			8:30	M W	PB 1302	
		025	8:30	F	PB 1306	
			8:30	T Th	PB 1302	
		026	8:30	F	PB 1306	
			9:30	M	PB 0312	
			9:30	W	PB 1302	
			9:30	F	PB 1306	
		027	9:30	T Th	PB 1302	
			9:30	F	PB 1306	
		028	10:30	M W F	PB 2413	
		029	2:30	M W	PB 1302	
		030	2:30	F	PB 1306	
			2:30	T Th	PB 1302	
		031	2:30	F	PB 1306	
			3:30	M W	LB 0051	
		032	3:30	F	PB 2304	
			3:30	T Th	LB 0051	
		e033	4:30-5:45	F	PB 2304	
				T Th	PB 0302	

112a-4	Introduction to Mathematics [One year high school algebra, satisfactory ACT score]	+201	11:30	MWF	ANA 111	Hawkins
		+202	12:30	MWF	ANA 111	Hawkins
		+401	10:30	MWF	ESL A	Glenn
		+e402	6:30-7:45	M W	ESL A	Birdman
		001	11:30	MWF	SL 1105	Verderber
			10:30	T Th	SL 1210	
		002	11:30	MWF	SL 1105	Verderber
			11:30	T Th	SL 1210	
		003	11:30	MWF	SL 1105	Verderber
			12:30	T Th	PB 1315	
		004	11:30	MWF	SL 1105	Verderber
			10:30	T Th	PB 2306	
112b-4	Introduction to Mathematics [GSD 112a]	005	11:30	MWF	SL 1105	Verderber
			11:30	T Th	SL 2224	
		006	11:30	MWF	SL 1105	Verderber
			12:30	T Th	PB 2306	
		+e201	6:30-8:20	T Th	SCI 002	
		001	9:30	MTWThF	SL 2224	Phillips
114a-5	College Algebra [One and one-half years algebra, one year plane geometry]	001	1:30	MWF	SL 3114	Gwillim
			12:30	T Th	SL 1225	
		002	1:30	MWF	SL 3114	Gwillim
			1:30	T Th	SL 1225	
		003	1:30	MWF	SL 3114	Gwillim
			2:30	T Th	PB 0303	
		004	1:30	MWF	SL 3114	Gwillim
			12:30	T Th	SL 3225	
		005	1:30	MWF	SL 3114	Gwillim
			1:30	T Th	SL 0226	
		006	1:30	MWF	SL 3114	Gwillim
			2:30	T Th	SL 3225	
		007	1:30	MWF	SL 3114	Gwillim
			1:30	T Th	SL 1210	
		008	2:30	MTWThF	SL 1225	
		009	8:30	MTWThF	SL 0226	
		010	9:30	MTWThF	PB 0303	
		011	9:30	MTWThF	PB 0302	
		012	10:30	MTWThF	PB 0302	

114a-5	College Algebra	013 10:30 014 11:30 015 12:30	MTWThF MTWThF MTWThF	PB 0303 PB 0303 PB 0303
		+201 11:30 +e202 6:00-8:20	MTWThF M W	SCI 002 SCI 002
		+401 11:30 +e402 6:00-8:20	MTWThF T Th	ESL A ESL A
114c-4	Trigonometry [GSD 114a]	001 8:30 002 9:30 003 1:30 e004 6:30-8:20	MTThF MTThF MTThF M W	PB 0302 SL 1224 PB 0302 PB 0302
114d-4	Statistics [GSD 114a]	001 10:30-12:30 002 10:30 003 10:30 004 2:30 e005 8:30-10:20	T Th MTThF MTThF MTWTh M W	PB 0312 SL 0226 PB 1306 SL 1224 PB 3305
123a-3	Elementary French [No previous training, concurrent enrollment in Fr 123a]	001 9:30 002 11:30 003 1:30 e004 6:30-7:45	MTTh MTTh MTTh T Th	PB 2409 PB 2409 PB 2409 PB 2409
126a-3	Elementary German [No previous training, concurrent enrollment in Ger 126a]	001 10:30 002 11:30 003 1:30 e004 5:30-6:45	MTTh MTTh MTTh M W	PB 2409 PB 2410 PB 2410 PB 2409
136a-3	Elementary Russian [No previous training, concurrent enrollment in Russ 136a]	001 10:30	MTTh	PB 2411
140a-3	Elementary Spanish [No previous training, concurrent enrollment in Span 140a]	001 10:30 002 10:30 003 12:30 004 2:30 e004 6:30-7:45	M T Th MTTh MTTh M W	PB 1312 PB 0304 PB 2409 PB 2409 PB 2410
144a-3	Elementary Italian [No previous training, concurrent enrollment in Ital 144a]	001 11:30 002 10:30 10:30	MTTh T Th W	PB 2411 PB 2413 PB 1308

HEALTH AND PHYSICAL DEVELOPMENT (GSE)

102-1	Physical Fitness (Men) Both sections meet first eight weeks only.	001 3:30 002 1:30	MTTh MWF	PB N Patio PB N Patio	Luedke Bigham
104f-1	Soccer (Men) Meets first eight weeks only.	001 2:30	MWF	PB N Patio	Guelker
104n-1	Cross Country Meets first eight weeks only.	e001 4:30	MTTh	PB N Patio	Luedke
104t-1	Touch Football Meets first eight weeks only.	001 1:30	TThF	PB N Patio	Brick
104u-1	Wrestling	201 10:30	M W	GYM 102	Brick
112-1	Basic Body Movement	001 1:30	T Th	LB 0033	Martin
114f-1	Soccer (Women) [Consent of instructor] Meets first eight weeks only.	001 1:30	TThF	PB S Patio	Archangel
114j-1	Softball (Women) [Consent of instructor] Meets first eight weeks only.	001 12:30	TThF	PB N Patio	Archangel
114o-1	Physical Conditioning (Women) [Consent of instructor] Meets first eight weeks only.	001 11:30	TThF	PB N Patio	Archangel
115c-1	Restricted Physical Education [Consent of instructor]	001 TBA			Martin
117a-1	Square Dance	001 9:30 002 11:30	T Th M W	LB 0033 LB 0033	Martin Carpenter
117b-1	Folk Dance	001 9:30 002 10:30	M W M W	LB 0033 LB 0033	Carpenter Carpenter
117c-1	Social Dance	001 12:30 002 3:30	T Th T Th	LB 0033 LB 0033	Martin Martin
117d-1	Beginning Contemporary Dance	001 2:30	T Th	LB 0033	Martin

117e-1	Intermediate Contemporary Dance	001	2:30	T Th	LB 0033	Martin
117f-1	Basic Rhythms	001	2:30	M W	LB 0033	Carpenter
		002	3:30	M W	LB 0033	Carpenter
118a-1	Archery	001	1:30	M W	PB N Patio	Martin
		002	2:30	M W	PB S Patio	Martin
		003	9:30	M W	PB N Patio	Martin
118d-1	Bowling	001	10:30	M W	UC 0017	Showers
		002	11:30	M W	UC 0017	Showers
		003	9:30	M W	UC 0017	Showers
		004	10:30	T Th	UC 0017	Gallatin
		005	9:30	T Th	UC 0017	Gallatin
		006	11:30	T Th	UC 0017	Gallatin
118e-1	Golf Both sections meet first eight weeks only.	001	2:30	TThF	PB N Patio	Brick
		002	3:30	TThF	PB S Patio	Brick
118h-1	Tennis	001	11:30	M W	PB N Patio	Martin
		002	10:30	M W	PB N Patio	Bigham
118i-1	Volleyball	+201	12:30	M W	GYM 102	Brick
		001	1:30	T Th	PB N Patio	Gallatin
		+401	1:30	T Th	ESL C	Whitted
		001	9:30	M W	PB S Patio	Bigham
201-3	Healthful Living	001	11:30	MWF	LB 0044	Lee, Bigham
		002	2:30	MWF	LB 0044	Lee, Bigham
		003	3:30	MWF	LB 0044	Klein
		004	2:30	MWF	PB 1414	Buddell
		e005	5:30-8:20	W	SL 1105	Brick
		006	12:30	MWF	LB 0044	Buddell
		007	11:30-12:50	T Th	LB 0044	Buddell
118z-1	Recreational Sports	+201	11:30	MWF	ANA 101	Brick
		+401	1:30	MWF	ESL C	Whitted

300-0	Corps Training [By permit only, concurrent enrollment in 301]	001	8:30	T	PB 0409	Blahous
301-3	Professional Officer Course [By permit only, concurrent enrollment in 300]	001	8:30	MWTh	PB 2410	Blahous
		002	1:30	M W	PB 2412	Hancock
			1:30	Th	PB 0411	
ACCOUNTING (ACCT)						
230-4	Accounting Principles [Sophomore standing] Consent LIFT for Sections 002 and 004.	001	8:30-10:20	T Th	PB 2405	
		002	8:30-10:20	T Th	PB 3314	
		003	12:30-2:20	T Th	PB 2405	
		004	12:30-2:20	T Th	PB 3314	
		e005	8:30-10:20	M W	PB 2405	
		e006	8:30-10:20	M W	PB 1312	
330-4	Managerial Cost and Budgeting [231]	001	10:30-12:20	M W	PB 2405	
331-4	Principles of Income Taxation [231]	001	8:30-12:20	S	PB 2405	
341-4	Cost Accounting Principles [231]	001	8:30-10:20	T Th	PB 2304	
		e002	6:30-8:20	T Th	PB 2304	
351a-4	Accounting Theory and Problems I [231]	001	10:30-12:20	M W	PB 3305	
442-4	Advanced Cost Accounting [341]	001	8:30-10:20	M W	PB 2304	
533-4	Managerial Accounting [530]	001	8:30-12:20	S	PB 3303	
ANTHROPOLOGY (ANTH)						
400-4	Man and Culture	001	12:30-2:20	T Th	PB 1307	Voget
483-3 to 6	Individual Study in Anthropology [Consent of faculty chairman]	001	TBA			
507a-3	Pro-Seminar in Social Anthropology	001	2:30-3:45	T Th	PB 1304	Maloney
ART (ART)						
050-3	Avocational Painting	e001	6:30-10:00	T Th		Wagner 198

051-3	Avocational Ceramics	e001	6:30-10:00	T Th	Wagner 192
100a-5	Basic Studio	001 002 003	TBA TBA TBA		
100b-5	Basic Studio [100a]	001 002	TBA TBA		
100c-5	Basic Studio [100b]	001 002	TBA TBA		
202a-5	Intermediate Studio I [100a,b,c]	001	TBA		
202b-5	Intermediate Studio II [100a,b,c]	001	TBA		
202c-5	Intermediate Studio III [100a,b,c]	001	TBA		
225a-3	History of World Art	001	12:30	MWF	PB 2306 Jacobson
300a-4	Art Education [Junior standing]	001 002 e003	10:30-12:20 2:30-4:20 6:30-9:20	MWF MWF M W	SL 0209 Buddemeyer SL 0209 Buddemeyer SL 0209 Buddemeyer
300b-4	Art Education [300a]	001	12:30-2:20	MWF	SL 0209
305a-4	Advanced Ceramics [202c]	001	10:30-12:20	MTWTh	Wagner 192 Sande
305b,c-4	Advanced Ceramics [305a]	001	8:30-10:20	MTWTh	Wagner 192 Sande
310a-4	Painting [202-5]	001	2:30-4:20	MTWTh	Wagner 198 Hampton
310b,c-4	Painting [310a]	001	8:30-10:20	MTWTh	Wagner 198 Huntley
325a,b,c-4	Studio [By permit only]	001 002	TBA TBA		SL 0222
349a-3	Renaissance and Baroque Art	e001	4:30-5:45	T Th	SL 0226 Jacobson
358a,b-4	Prints [202b]	001	10:30-12:20	MTWTh	SL 0210 Smith
358c-4	Prints [358b]	e001	6:30-10:20	T Th	SL 0210 Smith

365-4	Art Education in the Secondary School [By permit only]	001	8:30-10:20	MWF	SL 0209	Buddemeyer
393a,b-4	Sculpture [202a]	001	12:30-2:20	MTWTh	Wagner 193	Adkins
393c-4	Sculpture [393a,b]	001	10:30-12:20	MTWTh	Wagner 193	Marcell
401-4	Research in Painting [310-8]	001	12:30-2:20	MTWTh	Wagner 198	Freund
405-4	Studio in Sculpture [393-8]	001	10:30-12:20	MTWTh	Wagner 193	Marcell
410-4	Research in Prints [358-8]	e001	6:30-10:20	T Th	SL 0210	Smith
420-4	Research in Pottery [305-8]	001	2:30-4:20	MTWTh	Wagner 192	Cannon
441-4	Studio in Drawing [202a,b,c]	e001	4:30-6:20	TWThF	SL 0217	Davis
460-4	Research in Art Education	001	TBA			
483-3	Research in Art History [By permit only]	001	TBA			Hilberry
501-4	Graduate Painting	001	12:30-2:20	MTWTh	Wagner 198	Freund
502-4	Graduate Sculpture	001	10:30-12:20	MTWTh	Wagner 193	Marcell
511-4	Graduate Printmaking	e001	6:30-10:20	T W	SL 0210	Smith
520-4	Graduate Ceramics	001	2:30-4:20	MTWTh	Wagner 192	Cannon
566-4	Research in Art Education	001	TBA			
571-4	Readings in Art History	001	TBA			Hilberry
599-5 to 9	Thesis	001	TBA			
BIOLOGY (BIOL)						
301a-4	Concepts at the Cellular Level [GSA 201b, organic chemistry]	001	9:30 11:30-2:20	MWF T	SL 3225 SL 3218	Levy
		002	9:30 2:30-5:20	MWF T	SL 3225 SL 3218	Levy

301a-4	Concepts at the Cellular Level	003 004	9:30 11:30-2:20 9:30 2:30-5:20	MWF Th MWF Th	SL 3225 SL 3218 SL 3225 SL 3218	Levy Levy
302a-5	Concepts at the Organism Level [GSA 201b]	001 002 003 004	1:30 8:30-10:20 1:30 10:30-12:20 1:30 12:30-2:20 1:30 2:30-4:20	T Th MWF T Th MWF T Th MWF T Th MWF	SL 3114 SL 3210 SL 3114 SL 3210 SL 3114 SL 3210 SL 3114 SL 3210	
303a-4	Concepts at the Population Level [GSA 201b]	001 002 003 004	10:30 8:30-10:20 10:30 10:30-12:20 10:30 12:30-2:20 10:30 2:30-4:20	MWF Th MWF Th MWF Th MWF Th	PB 1315 SL 3210 PB 1315 SL 3210 PB 1315 SL 3210 PB 1315 SL 3210	Frost Frost Frost Frost
311-5	Applied Bacteriology [GSA 201b]	001 002 003	8:30 3:30 10:30-12:20 8:30 3:30 12:30-2:20 8:30 3:30 2:30-4:20	W F T W F W F T W F W F T W F	SL 1224 SL 3225 SL 3218 SL 1224 SL 3225 SL 3218 SL 1224 SL 3225 SL 3218	Davis Davis Davis
390a-3	Undergraduate Biology Seminar [Junior or senior standing]	001	4:00-5:20	W	SL 3114	R. Parker
441-3	Mammalian Physiology [310a or 302d]	001	8:30 12:30	M F Th	SL 3225 SL 1224	Ratzlaff
442-1	Mammalian Physiology Laboratory [Concurrent registration in 441]	001 002	11:30-2:20 2:30-5:20	M M	SL 3218 SL 3218	

447-4	Topics in Plant Physiology [302c, Chem 111c]	001	2:30 2:30-5:20	MWF T	SL 3225 SL 3210	Kulfinski
493-2 to 8	Research in Biology [Consent of faculty chairman]	001	TBA			
504b-3	Instructional Innovation in Secondary School Biology	e001	6:30-9:20	T Th	SL 3210	
590a-1	Graduate Biology Seminar	e001	4:30	W	SL 3114	R. Parker
591-1 to 4	Readings in Biology [Consent of faculty chairman]	001	TBA			
593-1 to 4	Special Problems in Biology [Consent of faculty chairman]	001	TBA			
599-2 to 9	Research and Thesis [Consent of faculty chairman]	001	TBA			
BUSINESS ADMINISTRATION (B A)						
540-4	Concepts of Managerial Performance [MBA students only]	001	8:30-12:20	S	PB 3315	
543-4	The Administrator [540]	e001	6:30-10:20	Th	PB 3303	
545-4	The Social Framework of Business [541]	e001	6:30-10:20	W	PB 3316	
BUSINESS COMMUNICATIONS (B C)						
390-4	Business Communications [GSD 101d, concurrent registration in GBA 340]	001 Lab	8:30-10:20 TBA	T Th F	PB 2306 PB 3315	
		002 Lab	8:30-10:20 TBA	T Th F	PB 2306 PB 3315	
		003 Lab	8:30-10:20 TBA	T Th F	PB 2306 PB 3315	
BUSINESS EDUCATION (BS ED)						
201a-3	Typewriting	001	TBA		PB 3415	
BIOLOGY (BIOL)						37

BUSINESS EDUCATION (BS ED)

201b-3	Typewriting	001	TBA		PB 3415
201 c-3	Typewriting	001	TBA		PB 3415
221a-4	Shorthand and Transcription	001	10:30	MTWTh	PB 3417
221 c-4	Shorthand and Transcription	001	2:30-4:20	M W	PB 3417
304-3	Advanced Typewriting	001	TBA		PB 3415
324a-4	Advanced Shorthand and Transcription	001 e002	12:30-2:20 6:30-8:20	T Th M W	PB 3417 PB 3417
324b-4	Advanced Shorthand and Transcription	e001	8:30-10:20	T Th	PB 3417
327-4	Office Theories and Procedures [201c or equivalent]	e001	6:30-8:20	T Th	PB 2406
341-4	Office Machines	001	2:30-4:20	M W	PB 3316
350-4	Consumer Income Management	001	10:30-12:20	M W	PB 3315
351-4	Foundations of Business Education	001	12:30-2:20	M W	PB 3316
360-4	Practicum in Vocational Education Additional sessions individually arranged.	001	9:00-12:20	F	PB 3316
404-3	Teaching Shorthand and Transcription [324a]	001	9:00-10:20	T Th	PB 3417
405-4	Teaching General Basic Business Subjects	001	10:30-12:20	T Th	PB 3315
414a-3	Organization and Administration of Cooperative Vocational Business Education Program	e001	5:30-8:20	T	PB 3302
417-4	Applications and Fundamentals of Data Processing in Business Education	e001	8:30-10:20	T Th	CB 0194
426-4	Office Management	e001	8:30-10:20	M W	PB 1306
427-4	Records Administration	001	12:30-2:20	T Th	PB 3303
503-4	Tests and Measurements in Business Education	e001	6:30-8:20	T Th	PB 3315

530-4	Research Seminar in Business Education	e001	6:30-8:20	M W	PB 3422
590-2 to 5	Readings in Business Education	001	TBA		
591-2 to 5	Individual Research in Business Education	001	TBA		
599-1 to 9	Thesis	001	TBA		
CHEMISTRY (CHEM)					
111a-5	Chemical Principles and Inorganic Chemistry [High school algebra]	001	8:30	MW/F	SL 1105
			8:30	Th	SL 2224
		002	8:30-11:20	T	SL 1209
			8:30	MW/F	SL 1105
			8:30	T	SL 2224
			8:30-11:20	Th	SL 1209
		003	8:30	MW/F	SL 1105
			2:30	Th	SL 2224
			2:30-5:20	T	SL 2215
		004	8:30	MW/F	SL 1105
			3:30	Th	SL 2224
			2:30-5:20	T	SL 1209
		005	8:30	MW/F	SL 1105
			2:30	T	SL 2224
			2:30-5:20	Th	SL 2215
		006	8:30	MW/F	SL 1105
			3:30	T	SL 2224
			2:30-5:20	Th	SL 1209
		007	8:30	MW/F	SL 1105
			3:30	M	SL 2224
			2:30-5:20	F	SL 2215
		008	11:30	MW/F	SL 3114
			12:30	Th	SL 2224
			11:30-2:20	T	SL 2215
		009	11:30	MW/F	SL 3314
			1:30	Th	SL 2224
			11:30-2:20	T	SL 1209
		010	11:30	MW/F	SL 3114
			12:30	T	SL 2224
			11:30-2:20	Th	SL 2215
		011	11:30	MW/F	SL 3114
			1:30	T	SL 2224
			11:30-2:20	Th	SL 1209

111a-5	Chemical Principles and Inorganic Chemistry [111a]	012	11:30 3:30 2:30-5:20	MWF W M	SL 3114 SL 2224 SL 2215
		013	11:30 3:30 2:30-5:20	MWF F W	SL 3114 SL 2224 SL 2215
111b-5	Chemical Principles and Inorganic Chemistry [111a]	001	8:30 10:30 8:30-11:20	MWF T Th	SL 3114 SL 2224 SL 2215
		002	8:30 10:30 8:30-11:20	MWF Th T	SL 3114 SL 2224 SL 2215
		003	8:30 12:30 11:30-2:20	MWF M F	SL 3114 SL 2224 SL 2215
		004	8:30 12:30 11:30-2:20	MWF W M	SL 3114 SL 2224 SL 2215
		005	8:30 12:30 11:30-2:20	MWF F W	SL 3114 SL 2224 SL 2215
235-5	General Quantitative Analysis [111c]	001	2:30 11:30-2:20	MWF MW	SL 2224 SL 2217
		002	2:30 11:30-2:20	MWF T Th	SL 2224 SL 2217
305a-3	Organic Chemistry, Preprofessional [111c]	001	8:30	MWF	PB 2306
341a-3	Organic Chemistry [111c]	e001	5:30-6:45	MW	SL 2224
345a,b,c-2	Organic Chemistry Laboratory	001	8:30-11:20	T Th	SL 2216
		002	11:30-2:20	T Th	SL 2216
		003	2:30-5:20	T Th	SL 2216
		004	1:30-4:20	WF	SL 2216
		e005	5:30-8:20	T Th	SL 2216
375-1	Chemistry Seminar [Senior standing]	e001	5:30	M	SL 2231
433-3	Intermediate Quantitative Analysis [432a or b, 461c]	e001	5:30-6:45	T Th	SL 2224

444-3	Organic Reactions [341c]	001	11:30	MWF	SL 2224	
461a-4	Physical Chemistry [235, 341c, 12 hours of physics, one year of calculus]	001	10:30	MWF	SL 2224	
			8:30-11:20	T	SL 2217	
		002	10:30	MWF	SL 2224	
			8:30-11:20	Th	SL 2217	
490-2	Chemical Literature [235, 305b or 341c, reading knowledge of German or consent of chairman]	e001	4:30	M W	SL 2224	
496-2 to 6	Chemical Problems	001	TBA			
562-3	Atomic and Molecular Structure [561]	e001	7:00-8:15	M W	SL 2224	
575-1	Graduate Seminar	e001	5:30	W	SL 2231	
597-3 to 5	Research and Thesis	001	TBA			
COUNSELOR EDUCATION (C ED)						
305-4	Educational Psychology [By permit only] Section 001 for Secondary Education concentrations only. Section 004 four additional sessions TBA.	001	9:30-11:20	T Th	PB 3302	Ahlbrand
		002	9:30-11:20	M W	PB 3302	Wheadon
		003	1:30-3:20	M W	PB 0304	Ederle
		e004	5:30-8:20	W	LB 0042	Ederle
410a-2	Dynamics of Campus Leadership	001	1:30-3:20	W	PB 0413	Evans
420-4	Educational Statistics Four additional sessions TBA for both sections.	e001	5:30-8:20	M	PB 2304	Rochester
		e002	5:30-8:20	W	PB 2304	Rochester
422-4	Educational Measurements I Four additional sessions TBA.	e001	5:30-8:20	Th	PB 3313	King
426-4	Individual Inventory Four additional sessions TBA.	e001	5:30-8:20	T	Pract Ctr	
501-4	Special Research Problems	001	TBA			
510-4	College Student Personnel Services	e001	5:30-8:20	M	Pract Ctr	Moore
511-4	Educational Implications of Learning Theories	e001	5:30-8:20	Th	PB 1402	

515-4	Psychological Aspects of Education	e001	5:30-8:20	T	PB 3313	
522-4	Educational Measurements II	e001	5:30-8:20	M	PB 3313	King
525-4	School Behavior Problems and Their Prevention	201	9:00-12:00	S	ANA 104	Meredith
526-4	Advanced Guidance of the Individual: Elementary	e001	5:30-8:20	T	PB 2306	Mermis
535-4	Introduction to Individual Measurement	e001	5:30-8:20	Th	Pract Ctr	
537-4	Counseling Theory and Practice I	e001	5:30-8:20	W	PB 3313	
		e002	5:30-8:20	Th	PB 2306	
538-4	Counseling Theory and Practice II	e001	5:30-8:20	T	LB 0042	Soper
541-4	Occupational Information and Guidance	e001	5:30-8:20	T	PB 1410	Van Horn
542-4	Basic Principles of Guidance	e001	5:30-8:20	T	LB 0044	King
543-4	Guidance Through Groups	e001	5:30-8:20	T	Pract Ctr	Davis
		e002	5:30-8:20	W	Pract Ctr	McBride
		e003	5:30-8:20	Th	Pract Ctr	Mermis
545b-4	Seminar in Guidance: Learning and Communication	e001	5:30-8:20	W	PB 2412	Mermis
545j-4	Seminar in Guidance: Organization and Administration	e001	5:30-8:20	W	PB 3102	Davis
562a-4	Child Development in Education	e001	5:30-8:20	Th	PB 1410	
562b-4	Adolescent Development in Education	e001	5:30-8:20	M	PB 0314	Ederle
575c-4	Practicum in Secondary Guidance	001	TBA		Pract Ctr	Moore
		002	TBA		Pract Ctr	
		003	TBA		Pract Ctr	Soper

DEANS COLLEGE (D C)

Deans College courses will be arranged as needed for those students registered in the Deans College. Student should contact Dr. Eric Sturley, Coordinator, for permission to enroll in these courses.

200-4	Macroeconomics [Sophomore standing]	001	10:30-12:20	T Th	PB 1315
201-4	Microeconomics [Sophomore standing]	001 e002	2:30-4:20 8:30-10:20	MW MW	PB 3303 PB 2411
300-4	The Monetary System and Economic Policy [201] Consent LIFT for Section 002.	001 002 e003	12:30-2:20 12:30-2:20 6:30-8:20	T Th T Th MW	PB 0304 PB 3315 PB 3315
310-4	Labor Problems [200, 201]	001	10:30-12:20	MW	PB 3303
317-4	Economic History of the United States	001	12:30-2:20	T Th	PB 3404
330-4	Public Finance I: National [300]	001	8:30-10:20	MW	PB 3317
340-4	Intermediate Micro Theory	001	8:30-10:20	T Th	PB 3317
430-4	Regional Economy [422]	001	2:30-4:20	T Th	PB 2411
441-4	Intermediate Macro Theory [200]	e001	6:30-8:20	MW	PB 3409
450a-3	History of Economic Thought [200, 201 or GSB 211a, 210]	e001	4:30-6:20	T Th	PB 3422
465-4	Mathematical Economics I [440]	e001	8:30-10:20	MW	PB 3422
505-4	Theory of the Firm [504]	e001	6:30-10:20	M	PB 3316
541-4	National Income Theory [441 or consent of instructor] Saturday additional hours TBA.	e001	6:30-9:20	M	PB 3314
542-4	Price Theory [440 or consent of instructor] Saturday additional hours TBA.	e001	6:30-9:20	T	PB 3314
561-4	Advanced Topics in Economic History [Consent of instructor] Saturday additional hours TBA.	e001	6:30-9:20	W	PB 3314
599-1 to 9	Thesis [Consent of instructor]	e001	TBA		

EDUCATION ADMINISTRATION (ED AD)

EDUCATION ADMINISTRATION (ED AD)

355-4	Philosophy of Education [C Ed 305] Four extra sessions TBA for Sections 006 and 007.	001 002 003 004 005 e006 007	9:30-11:20 9:30-11:20 11:30-1:20 1:30-3:20 1:30-3:20 5:30-8:20 9:00-11:40	M W T Th M W M W T Th M S	PB 0409 PB 0409 PB 0409 PB 0409 PB 0409 PB 0411 PB 0411	Aranda Curry Hofmann Curry Aranda Curry Aranda
420-4	Legal Basis of American Education	e001	5:30-8:20	M	PB 0309	Ackerlund
434-4	Administrator's Workshop	e001	5:30-8:20	Th	PB 2413	Ackerlund
456-4	School Supervision	e001 002	5:30-8:20 9:00-11:40	M S	PB 0406 PB 0314	Helsel Wheat
480-4	Backgrounds of Urban Education Four extra sessions TBA.	e001	5:30-8:20	Th	PB 1307	Burnett
500-4	Research Methods	e001 e002 e003 e004 e005 006	5:30-8:20 5:30-8:20 5:30-8:20 5:30-8:20 5:30-8:20 9:00-11:40	M T W Th F S	LB 0051 LB 0051 LB 0051 LB 0051 LB 0051 LB 0051	Popp Hildebrand Jordan Popp Richards Popp
501-4	Seminar in Educational Administration [524]	e001	5:30-8:20	W	PB 3305	Helsel
506-4	Seminar: Curriculum in Relation to American Culture	e001	5:30-8:20	T	SL 2231	Mason
511a-4	Internship Practicum [Consent of instructor and faculty chairman]	001	TBA			
520-4	Illinois School Law	e001	5:30-8:20	T	PB 0314	Wilkins
524-4	School Administration	e001	5:30-8:20	W	PB 0314	Krchniak
534-4	School Finance	e001	5:30-8:20	W	PB 0406	Wilkins
551-4	Community Junior College Curriculum	e001	5:30-8:20	M	PB 0408	Boss

554-4	Contrasting Philosophies of Education	e001 002	5:30-8:20 9:00-11:40	W S	PB 2413 PB 2413	Villemain Hofmann
560-4	Curriculum	e001 002	5:30-8:20 9:00-11:40	T S	PB 2415 PB 0408	Smith Smith
563-4	Workshop in School Public Relations	e001	5:30-8:20	T	SL 1210	Andree
565-4	The Community Junior College	e001	5:30-8:20	Th	SL 1210	Goodwin
575a-4	Individual Research (Curriculum) [Consent of instructor and faculty chairman]	001	TBA			
575b-4	Individual Research (Supervision) [Consent of instructor and faculty chairman]	001	TBA			
575c-4	Individual Research (Buildings) [Consent of instructor and faculty chairman]	001	TBA			
575d-4	Individual Research (Finance) [Consent of instructor and faculty chairman]	001	TBA			
575e-4	Individual Research (School Law) [Consent of instructor and faculty chairman]	001	TBA			
575f-4	Individual Research (Comparative Education) [Consent of instructor and faculty chairman]	001	TBA			
575g-4	Individual Research (History of Education) [Consent of instructor and faculty chairman]	001	TBA			
575h-4	Individual Research (Philosophy of Education) [Consent of instructor and faculty chairman]	001	TBA			
575j-4	Individual Research (Administration) [Consent of instructor and faculty chairman]	001	TBA			
575k-4	Individual Research (Elementary Administration) [Consent of instructor and faculty chairman]	001	TBA			
596-5 to 9	Independent Investigation [Consent of instructor and faculty chairman]	001	TBA			

597-1 to 3 Thesis [Consent of instructor and faculty chairman]

001	TBA				
001	12:30-2:10	T F	PB 0411	Kuenzli	
001	12:30-2:20	M W	PB 0412	Steinbrook	
002	12:30-2:20	T Th	PB 0412	Steinbrook	
e003	5:30-8:20	W	PB 0309	Carpenter	

EDUCATION ELEMENTARY (ED EL)

203-3	Understanding the Elementary School Child [GSB 201 c]				
314-4	Elementary School Methods [Ed Ad 355, consent undergraduate teacher education advisement office] For either day section student enrolls for class meetings and schedules a two-hour laboratory held weekly in a public school during school hours. The evening section is not open to continuing day students; equivalent laboratory time must be arranged. Section 003 four extra sessions TBA.				
316-4	Kindergarten-Primary Methods and Curriculum [C Ed 305, Ed Ad 355, consent of undergraduate teacher education advisement office] Two-hour laboratory TBA. (See 314).	M W	PB 0411	Kuenzli	
337-4	Reading in the Elementary Schools [314, C Ed 305, Ed Ad 355]	M W M W T Th	PB 0403 PB 0403 PB 0406	Starr Starr Starr	
350d-8 to 12	Kindergarten-Primary Student Teaching [316, C Ed 305, Ed Ad 355, approval of elementary education adviser]				
350e-4 to 8	Advanced Kindergarten-Primary Student Teaching [350d]				
351d-8 to 16	Elementary Student Teaching [314, C Ed 305, Ed Ad 355, other courses listed in each area of concentration, approval of elementary education adviser]				
351e-4 to 8	Advanced Elementary Student Teaching [351d]				
413-4	Children's Literature [C Ed 305] Four extra sessions TBA.	Th	LB 0042	Darnell	

EDUCATION ELEMENTARY (ED EL)							47
415-4	Improvement of Instruction in Arithmetic in the Elementary School [Math 310]	001 e002	10:30-12:20 5:30-8:20	T Th W	PB 0411 PB 1414	Swerdlin Swerdlin	
442-4	Science for the Elementary Teacher [314]	e001	5:30-8:20	Th	PB 0411	Bliss	
480-4	Backgrounds of Urban Education	e001	5:30-8:20	Th	PB 1307	Burnett	
505-4	Improvement of Reading Instruction	e001 e002	5:30-8:20 5:30-8:20	T W	PB 0304 PB 0408	Richardson Turner	
507-2 to 4	Readings in Reading [505, consent of instructor]	001	TBA				
509-4 to 8	Practicum in Reading [521a, consent of instructor]	001	TBA				
513-4	Materials and Methods for the Assessment of the Disabled Reader [505]	e001	5:30-8:20	W	PB 0403	Richardson	
518-4	Supervision of Student Teachers	e001	5:30-8:20	M	PB 0304	Wehling	
521a-4	Diagnosis and Correction of Reading Disabilities [505, consent of instructor] Student enrolls for lecture and one clinic.	eLect Clinic 1 Clinic 2 Clinic 3	5:30-7:20 8:00-9:30 9:30-11:00 11:00-12:30	T S S S	PB 0403 PB 0405 PB 0405 PB 0405	Turner	
521b-4	Diagnosis and Correction of Reading Disabilities [521a, consent of instructor] Student enrolls for lecture and one clinic.	eLect Clinic 1 Clinic 2 Clinic 3	5:30-7:20 8:00-9:30 9:30-11:00 11:00-12:30	Th S S S	PB 0403 PB 0405 PB 0405 PB 0405	Bear	
542-4	Language Arts in the Elementary School	e001	5:30-8:20	T	PB 2412	Darnell	
543-4	Teaching the Social Studies in the Elementary School	e001	5:30-8:20	T	PB 1307	Carpenter	
553-4	Practicum in Urban Education	001	TBA			Burnett, Wheadon	
557-4	The Elementary Principalship [524, consent of instructor]	e001	5:30-8:20	Th	PB 3316	Wheat	

561-4	The Elementary School Curriculum	001	9:00-11:40	S	PB 1306	Comer
567a-4	Teaching Competencies and their Application	001	TBA			Harmin
		e002	5:30-8:20	M	PB 1312	Wheadon
575a-4	Individual Research (Curriculum) [Consent of instructor and faculty chairman]	001	TBA			
575b-4	Individual Research (Supervision) [Consent of instructor and faculty chairman]	001	TBA			
575c-4	Individual Research (Language Arts) [Consent of instructor and faculty chairman]	001	TBA			
575d-4	Individual Research (Science) [Consent of instructor and faculty chairman]	001	TBA			
575e-4	Individual Research (Reading) [Consent of instructor and faculty chairman]	001	TBA			
575f-4	Individual Research (Social Studies) [Consent of instructor and faculty chairman]	001	TBA			
575g-4	Individual Research (Elementary Education) [Consent of instructor and faculty chairman]	001	TBA			
575h-4	Individual Research (Arithmetic) [Consent of instructor and faculty chairman]	001	TBA			
575j-4	Individual Research (Kindergarten-Primary) [Consent of instructor and faculty chairman]	001	TBA			
575k-4	Individual Research (Elementary Administration) [Consent of instructor and faculty chairman]	001	TBA			
596-5 to 9	Independent Investigation [Consent of instructor and faculty chairman]	001	TBA			
597-1 to 3	Thesis [Consent of instructor and faculty chairman]	001	TBA			

315-4 High School Methods [Ed Ad 355, consent of undergraduate teacher education advisement office] Day section student enrolls for class meetings twice a week and arranges a laboratory experience in public school during school hours with his instructor. The evening student must arrange equivalent laboratory time.

001	8:30-10:20	M W	PB 0411	Wilson
002	10:30-12:20	M W	PB 3313	Ahlbrand
003	12:30-2:20	M W	PB 1306	Schnabel
e004	7:30-10:20	Th	PB 0403	Smith

352d-8 to 16 Secondary Student Teaching [315, consent of student teaching office]
002 to 025 TBA

- | | |
|----------------------|------------------------|
| 002 Art | 013 History |
| 003 Biology | 016 Journalism |
| 004 Business | 018 Music |
| 005 Chemistry | 019 Physical Education |
| 006 Economics | 020 Physics |
| 007 English | 021 Sociology |
| 008 Foreign Language | 022 Social Studies |
| 009 General Science | 023 Speech |
| 010 Geography | 024 Library Service |
| 011 Government | 025 Psychology |
| 012 Health Education | |

352e-4 to 8 Advanced Secondary Student Teaching [352d]
002 to 025 TBA
See listing under 352d.

407-4	The Junior High School Four extra sessions TBA.	T	PB 2414	Hileman
480-4	Backgrounds of Urban Education Four extra sessions TBA.	Th	PB 1307	Burnett
488-4	Teaching Social Studies in Secondary Schools Four extra sessions TBA.	W	PB 1313	Tom
505-4	Improvement of Reading Instruction	T	PB 0304	Richardson
		W	PB 0408	Turner
507-4	Readings in Reading			

EDUCATION SECONDARY (ED S)

508-4	Seminar: Trends in Selected Areas in Secondary Schools	e001	5:30-8:20	W	PB 1309	Schnabel
509-4	Practicum in Reading	001	TBA			
513-4	Materials and Methods for the Assessment of the Disabled Reader [Consent of instructor]	e001	5:30-8:20	W	PB 0403	Richardson
518-4	Supervision of Student Teachers	e001	5:30-8:20	M	PB 0304	Wehling
521a-4	Diagnosis and Correction of Reading Disabilities [Consent of instructor] Student enrolls for lecture and one clinic	eLect Clinic 1 Clinic 2 Clinic 3	5:30-7:20 8:00-9:30 9:30-11:00 11:00-12:30	T S S S	PB 0403 PB 0405 PB 0405 PB 0405	Turner
521b-4	Diagnosis and Correction of Reading Disabilities [521a, consent of instructor] Student enrolls for lecture and one clinic	eLect Clinic 1 Clinic 2 Clinic 3	5:30-7:20 8:00-9:30 9:30-11:00 11:00-12:30	Th S S S	PB 0403 PB 0405 PB 0405 PB 0405	Bear
553-4	Practicum in Urban Education	001	TBA			Burnett, Wheadon
562-4	The High School Curriculum	e001	5:30-8:20	W	PB 1312	Smyers
564-4	High School Principalship [524, consent of instructor]	e001	5:30-8:20	Th	PB 2415	Andree
567a-4	Teaching Competencies and Their Application [Consent of instructor or faculty chairman]	001 e002	TBA 5:30-8:20			Harmin Wheadon
575a-4	Individual Research (Curriculum) [Consent of instructor or faculty chairman]	001	TBA			
575b-4	Individual Research (Supervision) [Consent of instructor or faculty chairman]	001	TBA			
575c-4	Individual Research (Language Arts) [Consent of instructor or faculty chairman]	001	TBA			
575d-4	Individual Research (Science) [Consent of instructor or faculty chairman]	001	TBA			

575e-4	Individual Research (Reading) [Consent of instructor or faculty chairman]	001	TBA
575f-4	Individual Research (Social Studies) [Consent of instructor or faculty chairman]	001	TBA
575g-4	Individual Research (Secondary Education) [Consent of instructor or faculty chairman]	001	TBA
575h-4	Individual Research (Higher Education) [Consent of instructor or faculty chairman]	001	TBA
575j-4	Individual Research (Junior College) [Consent of instructor or faculty chairman]	001	TBA
596-5 to 9	Independent Investigation [Consent of instructor and faculty chairman]	001	TBA
597-1 to 3	Thesis [Consent of instructor and faculty chairman]	001	TBA

ENGINEERING (ENGR)

101a-3	Engineering Graphics	001	8:30-10:20	MWF	SL 1216	Bishop
		002	10:30-12:20	MWF	SL 1216	Bishop
		e003	6:30-9:20	M W	SL 1216	Bishop
200a-3	Circuit Analysis [Math 150a or concurrent enrollment]	001	12:30	MWF	SL 3225	Brown
		e002	5:00-6:20	T Th	SL 3225	McKay
201a-1	Circuit Analysis Laboratory	001	10:30-1:20	T	SL 1212	Brown
		002	2:30-5:20	T	SL 1212	Jones
		e003	6:30-9:20	T	SL 1212	McKay
		e004	6:30-9:20	Th	SL 1212	Hord
300-3	Thermodynamics [Math 252b, Phys 211b]	001	8:30	MWF	SL 2224	Jones
311a-3	Engineering Materials [260a, 300]	001	10:30	MWF	PB 2406	Korn
312a-1	Engineering Materials Laboratory [311a]	001	8:30-11:20	T	SL 0116a	Korn
363b-3	Surveying [Math 114b]	001	9:30-2:20	S	SL 3225	

395-2 to 8	Readings in Engineering [Junior or senior standing]	001	TBA			
410a-4	Electron Devices [200, 201, 310]	001	10:30	MWThF	SL 3225	Hord
411a-1	Electron Devices Laboratory	001	1:30-4:20	Th	SL 1212	Hord
465-4	Automatic Control Theory	e001	5:00-6:50	MW	SL 1210	McKay
470a-4	Geodesy [Math 252b]	001	3:30-5:20	T Th	SL 1210	Collins
472-3	Digital Computers in Research [Math 225]	e001	8:30-9:45	T Th	CB 0186	Wallace
590-2 to 4	Readings in Engineering Mathematics [Consent of faculty chairman]	001	TBA			
ENGLISH (ENG)						
300-4	Principles of English Grammar [Completion of second-level GSC]	001	11:30	MTTh	PB 0304	Weir
			11:30	F	PB 0307	
		e002	6:30-8:20	T Th	PB 1308	Van Syoc
302a-4	Survey of English Literature: Beginnings to 1550 [Completion of second-level GSC]	001	9:30	MTThF	PB 1308	Hoyenga
		e002	8:30-10:20	MW	PB 0303	Cobb
302b-4	Survey of English Literature: 1550-1750 [Completion of second-level GSC]	001	9:30	MTThF	PB 0406	
302c-4	Survey of English Literature: 1750 to Present [Completion of second-level GSC]	001	11:30	MTThF	PB 3102	Duncan
309a-4	Survey of American Literature to 1860 [Completion of second-level GSC]	001	2:30	MTThF	PB 0413	Havens
		e002	6:30-8:20	T Th	PB 1313	
309b-4	Survey of American Literature Since 1860 [Completion of second-level GSC]	001	2:30	MTThF	LB 0042	Zanger
		e002	8:30-10:20	MW	PB 0309	Austin
365-4	Shakespeare [Completion of second-level GSC]	001	8:30	MTThF	PB 0406	Graham
391-3	Usage in Spoken and Written English [Completion of second-level GSC]	001	8:30	MWF	PB 0408	Lawrence
		002	3:30	MWF	PB 0408	Funkhouser
		e003	8:30-9:45	T Th	PB 2411	Steinman

392-3	Professional Writing I [Completion of second-level GSC]	001	9:00-11:45	S	PB 0302	Hobbie
404a-4	Middle English Literature Excluding Chaucer [Completion of second-level GSC, junior standing]	e001	4:30-6:20	MW	PB 0303	Wood
405a-4	Descriptive Linguistics [Completion of second-level GSC, junior standing]	001	2:30	MTThF	PB 2406	Van Syoc
412d-4	English Nondramatic Literature: 1744-1798 [Completion of second-level GSC, junior standing]	001	10:30	TWThF	PB 1302	Slattery
421b-4	English Poetry: Later Romantics [Completion of second-level GSC, junior standing]	001	11:30	MTThF	PB 2406	Bailey
431b-4	Major American Writers: 1800-1865 [Completion of second-level GSC, junior standing]	001	12:30	MTThF	PB 2406	Havens
454c-4	English Fiction: 20th Century [Completion of second-level GSC, junior standing]	001	1:30	MTThF	PB 2406	
458a-4	American Fiction: Novels to 1914 [Completion of second-level GSC, junior standing]	e001	6:30-8:20	MW	PB 2414	Joost
460d-4	English Drama: Modern British [Completion of second-level GSC, junior standing]	e001	4:30-6:20	T Th	PB 0303	Going
471a-4	Shakespeare [Completion of second-level GSC, junior standing]	001	3:30	MTThF	PB 0303	Taylor
485-4	Problems in the Teaching of English [Completion of second-level GSC, junior standing]	e001	6:30-8:20	T Th	PB 2411	Steinman Frogner
495a-4	Literary Criticism: History [Completion of second-level GSC, junior standing]	001	9:30	MTThF	PB 0408	Cobb
499-2 to 4	Readings in English [Consent of adviser]	001	TBA			
						ENGLISH (ENG)
						53

500-4	Materials and Methods of Research in English [Graduate standing, by permit only]	001 e002	11:30 8:30-10:20	MTThF M W	PB 1304 PB 3317	Hoyenga Hoyenga
501-4	Old English Grammar [Graduate standing, by permit only]	e001	6:30-8:20	T Th	PB 3317	Wood
520-4	Studies in Romantic Writers: The Movement of Ideas [Graduate standing, by permit only]	001	2:30-4:20	M W	PB 3317	Duncan Ades
534-4	Studies in Early 19th Century American Writers [Graduate standing, by permit only]	e001	4:30-6:20	M W	PB 3316	Austin
560-4	Studies in Renaissance Drama [Graduate standing, by permit only]	e001	8:30-10:20	T Th	PB 3317	Taylor
585-4	Teaching College Composition [Graduate standing, by permit only]	001	10:30-12:20	T Th	PB 3317	Murphy
598-1 to 4	Independent Review of English and American Literature [Consent of adviser, by permit only]	001	TBA			
599-2 to 4	Thesis [Consent of adviser, by permit only]	001	TBA			
FINANCE (FIN)						
320-4	Corporation Finance [Acct 230, 231; Econ 200, 201]	e001	8:30-10:20	T Th	PB 2403	
420-4	Problems in Corporation Finance [320]	001	10:30-12:20	M W	PB 2304	
423-4	Commercial Banking Operations [420]	001 e002	8:30-10:20 6:30-8:20	T Th T Th	PB 1304 PB 3314	
520-4	Finance [MBA students only]	e001	6:30-10:20	T	PB 3316	
FOREIGN LANGUAGES (F L)						
399-3 to 9	Readings [201, consent of chairman]	001	TBA			
486-4	Materials and Methods for Teaching Foreign Languages [One quarter of any 300-level foreign language or consent of chairman]	001	2:30-4:20	T Th	PB 2410	Pellegrino

123a-1	French Conversation [Concurrent enrollment in GSD 123a]	001 9:30 002 11:30 003 1:30 e004 7:55-8:20	F F F T Th	PB 2409 PB 2409 PB 2409 PB 2409
130-5	Elementary Intensive French I [Consent of adviser, concurrent enrollment in 131]	001 9:30	MTWThF	PB 2410
131-5	Elementary Intensive French II [Consent of adviser, concurrent enrollment in 130]	001 12:30	MTWThF	PB 2410
201a-3	Intermediate French [Two years high school French or GSD 123 or equivalent]	001 10:30 002 12:30	MWF MWF	PB 2410 PB 2411
220-2	Intermediate French Conversation [Concurrent enrollment in 201a or consent of chairman]	001 10:30 002 12:30	T Th T Th	PB 2410 PB 2411
338c-4	French Literature from the Middle Ages Through the 17th Century [201, one quarter 220 or consent of chairman]	001 2:30-4:20	MW	PB 2410
351a-3	Advanced French Conversation and Composition [201, one quarter 220 or consent of chairman]	001 10:30	MWF	PB 0412
499-2 to 5	Readings in French [201, one quarter 220, consent of chairman]	001 TBA		
545-3	Applied Linguistics and Remedial Phonetics [Graduate standing]	e001 6:30-7:45	T Th	TBA
GERMAN (GER)				
126a-1	German Conversation [Concurrent enrollment in GSD 126a]	001 10:30 002 11:30 003 1:30 e004 6:55-7:20	F F F MW	PB 2409 PB 2410 PB 2410 PB 2409
201a-3	Intermediate German [Two years high school German or GSD 126 or equivalent]	001 9:30	MWF	PB 2411

220-2	Intermediate German Conversation [Concurrent enrollment in 201a or consent of chairman]	001	9:30	T Th	PB 2411
313a-4	German Literature Before Romanticism [201, one quarter 220 or consent of chairman]	001	12:30-2:20 12:30-2:20	W F	PB 2409 LB 0051
351a-3	Advanced German Conversation and Composition [201, one quarter 220 or consent of chairman]	001	8:30	MWF	PB 2409
499-2 to 5	Readings in German [201, one quarter 220, consent of chairman]	001	TBA		
514-3	Seminar in Folklore [Graduate standing]	e001	5:05-6:20	T Th	PB 0309
GREEK (GR)					
499a-3	Ancient Greek [One year college-level foreign language, consent of instructor]	001	11:30	MWF	PB 0309
ITALIAN (ITAL)					
144a-1	Italian Conversation [Concurrent enrollment in GSD 144a]	001 002	11:30 10:30	F F	PB 2411 PB 1308
201a-3	Intermediate Italian [Two years high school Italian or GSD 144 or equivalent]	001	12:30	MWF	PB 0302
220-2	Intermediate Italian Conversation [Concurrent enrollment in 201a or consent of chairman]	001	12:30	T Th	PB 0408
499-3	Readings in Italian [201, one quarter 220, consent of chairman]	e001	4:30-5:45	M W	PB 2410
LATIN (LAT)					
299a-3	Readings in Latin [Two or more years high school Latin or equivalent, consent of instructor]	001	12:30	MWF	PB 0309
RUSSIAN (RUSS)					
136a-1	Russian Conversation [Concurrent enrollment in GSD 136a]	001	10:30	F	PB 2411

201a-3	Intermediate Russian [Two years high school Russian or GSD 136 or equivalent]	001	11:30	MWF	PB 3302
499-2 to 5	Readings in Russian [201, one quarter 220, consent of chairman]	001	TBA		
SPANISH (SPAN)					
140a-1	Spanish Conversation [Concurrent enrollment in GSD 140a]	001	10:30	F	PB 1312
		002	12:30	F	PB 2409
		003	2:30	F	PB 2409
		e004	7:55-8:20	M W	PB 2410
201a-3	Intermediate Spanish [Two years high school Spanish or GSD 140 or equivalent]	001	11:30	M F	PB 1412
			11:30	W	PB 0314
		002	1:30	MWF	PB 2411
220-2	Intermediate Spanish Conversation [Concurrent enrollment in 201a or consent of chairman]	001	11:30	T Th	PB 0406
		002	1:30	T Th	PB 2411
304a-4	Modern Spanish Literature [201, one quarter 220 or consent of chairman]	001	12:30-2:20	T Th	PB 1309
351a-3	Advanced Spanish Conversation and Composition [201, one quarter 220 or consent of chairman]	001	9:30	MWF	PB 1307
415-3	Phonetics [201, one quarter 220 or graduate standing or consent of chairman]	e001	4:30-5:45	T Th	PB 2410
499-2 to 5	Readings in Spanish [201, one quarter 220, consent of chairman]	001	TBA		
GENERAL BUSINESS ADMINISTRATION (GBA)					
140-4	Introduction to Business	001	10:30-12:20	M	PB 0312
			10:30-11:20	W	PB 0312
			11:30-12:20	W	PB 2409
		002	10:30-12:20	M	PB 0312
			10:30-11:20	W	PB 0312
			11:30-12:20	W	PB 2411
		003	10:30-12:20	M	PB 0312
			10:30-11:20	W	PB 0312
			11:30-12:20	W	PB 0312

140-4	Introduction to Business	004	2:30-4:20	T	PB 2405
			2:30-3:20	Th	PB 2405
		005	3:30-4:20	Th	PB 2405
			2:30-4:20	T	PB 2405
			2:30-3:20	Th	PB 2405
			3:30-4:20	Th	PB 2403
		e006	6:30-8:20	M	PB 1402
			6:30-7:20	W	PB 1402
			7:30-8:20	W	PB 3302
		e007	6:30-8:20	M	PB 1402
			6:30-7:20	W	PB 1402
			7:30-8:20	W	PB 1316
		e008	6:30-8:20	M	PB 1402
			7:30-8:20	W	PB 1402
			6:30-7:20	W	PB 3302
		e009	6:30-8:20	M	PB 1402
			6:30-7:20	W	PB 1316
			7:30-8:20	W	PB 1402
340-4	Organizational Behavior and Decision Making [140, GSB 103a, GSB 201a,c] Consent LIFT for Sections 002 and 004.	001	10:30-12:20	T Th	PB 3303
		002	10:30-12:20	T Th	PB 3314
		003	2:30-4:20	T Th	PB 3303
		004	2:30-4:20	T Th	PB 3314
341-4	Organizational Problems [340]	001	8:30-10:20	MW	PB 3303
		002	8:30-10:20	MW	PB 3316
342-4	Contracts--Agency Law	001	10:30-12:20	T Th	PB 2304
		e002	8:30-10:20	T Th	PB 2414
440-4	Legal Environment of Business [140] Consent LIFT for Section 002.	001	12:30-2:20	M W	PB 3404
		002	12:30-2:20	M W	PB 3315
441-4	Business Policy [341, senior standing]	001	10:30-12:20	M W	PB 3316
GEOGRAPHY (GEOG)					
302-4	Introduction to Physical Geography	001	1:30	M W	SL 1215
			1:30-3:20	T	SL 1215
304-4	Introduction to Economic Geography	001	8:30	MTWTh	PB 1412
					Koepe
					Yarbrough

GEOGRAPHY (GEOG)						59
306-4	Introduction to Cultural Geography	001	10:30	MTWTh	PB 1412	Baker
310a-4	Introduction to Cartographic Methods	001	2:30-4:20	T Th	SL 1216	Collier
403a-4	Physical Geography II	001	2:30-4:20	M W	SL 1215	Gore
404c-3	Location of Economic Activities I	001	11:30	TWTh	PB 1412	Clements
410a-4	Quantitative Methods in Geography (Same as Govt 410a and Soc 410a)	e001	6:30-8:20	T Th	PB 0406	Guffy Crowther
461b-3	Regional Geography of Anglo-America	e001	5:30-8:20	M	PB 1412	Collier
462a-4	Regional Geography of Europe	001	9:30	MTWTh	PB 1412	Lampe
467a-4	Regional Geography of Latin America	001	1:30	MTWTh	PB 1412	Thompson
470a-4	Urban Planning: History	001	2:30	MTWTh	PB 1412	Roth
490a-2	Tutorial in Geography	001	2:30	Th	PB 0306	Roth
501-4	Geographic Techniques II	e001	5:30-8:20	W	Tract 14B	Koepke
520-4	Seminar in Physical Geography	001	8:30-12:30	S	SL 1215	Miller
521-4	Seminar in Economic Geography	e001	5:30-8:20	W	PB 1412	Collier
530-2 to 4	Independent Studies in Geography	e001	5:30-8:20	W	PB 1412	Collier
570-4	Philosophy, Theory, and Practice of Planning	e001	5:30-8:20	M	Tract 14B	Roth
573-4	Urban Renewal	e001	5:30-7:20	T Th	Tract 14B	Lossau
575-4	Urban Planning and Analysis	001	2:30-4:20	T Th	Tract 14B	Lossau
599-2 to 8	Thesis	001	TBA			Kazeck
GOVERNMENT (GOVT)						
200-4	Introduction to Political Science	001	9:30	MTWTh	PB 1311	Stahnke
		002	1:30	MTWTh	PB 1311	Feeney Maier

320-4	Introduction to Public Administration [GSB 203a]	001	1:30	TWThF	PB 1313	
340b-4	American Legislative Process [GSB 203a]	001	8:30	TWThF	PB 1313	Tubbesing
345a-4	History of American Political Parties [GSB 203a]	001	9:30	MTWTh	PB 1313	Goodman
350a-4	British and German Political Systems [200]	001	2:30	MTWTh	PB 1313	Glaser
355a-4	Latin American Political Systems	001	10:30	MTWTh	PB 1313	Maier
385-4	Introduction to Political Theory [200]	001	12:30	MTWTh	PB 1313	Mace
410a-4	Quantitative Methods in Political Science (Same as Geog 410a and Soc 410a)	e001	6:30-8:20	T Th	PB 0406	Guffy Crowther
429-4	Topics in Public Administration [320]	001	1:30	TWThF	PB 1308	Jachim
445a-4	American Voting Behavior [GSB 203a]	001	12:30	TWThF	PB 1308	
456-4	Topics in Comparative Politics	001	9:30	MTWTh	SL 0226	Hsaio
473b-4	Soviet Foreign Policy [200]	001	11:30	MTWTh	PB 1313	Stahnke
484a-4	History of Western Political Theories (Same as Phil 484a)	001	10:30	MTWTh	PB 1311	Mace
499-4	Scope and Method of Political Science [20 hours of upper division work in government]	001	9:30-1:20	S	PB 1308	
521-2 to 5	Readings in Government [Consent of faculty chairman]	001	TBA			
529-4	Seminar in Public Administration	e001	5:30-9:20	W	PB 1304	McHargue
599-2 to 5	Thesis [Consent of faculty chairman]	001	TBA			
HEALTH EDUCATION (H ED)						
302s-4	Driver Education and Training	001	9:30	MTWThF	PB 2412	Klein

Introduction to Public Health			e001	5:30-9:20	Th	PB 2412	Grist
355-4	400-4	Health Appraisal of School Children	001	2:30	MTWTh	PB 2412	Klein
HISTORY (HIST)							
100-3		Survey of Ancient History	001	3:30	MWF	PB 1307	Wurtz
102-4		Survey of Asian Civilization	001	11:30	MWF	PB 1307	
			e002	11:30	T	PB 3404	
				6:30-8:20	M W	PB 1307	
312-4		Eastern Europe	001	11:30	MTWF	PB 0408	Kimball
316a-3		History of Africa	001	12:30	MWF	PB 3302	Grant
332a-3		Medieval History	e001	6:30-7:45	T Th	PB 0309	Wurtz
341a-3		History of Religion in Western Civilization	001	2:30	MWF	PB 0307	Pearson
352a-3		History of Latin America	001	8:30	MWF	PB 0307	Farrar
367a-3		History of the Far East	001	1:30	MWF	PB 0408	
372a-3		History of Russia	001	12:30	MWF	PB 0408	Santoni
401a-4		History of the South	e001	6:30-8:20	T Th	PB 0408	Nordhauser
410-2 to 5		Special Readings in History [Consent of faculty chairman]	001	TBA			
412a-3		Intellectual History of the United States	001	10:30	MWF	PB 0307	Rosenthal
415a-4		Early Modern Europe	001	11:30	MTWTh	PB 0307	Erickson
420-4		The French Revolution	e001	6:30-8:20	T Th	PB 0307	Gallaher
422a-4		History of the Near East	001	10:30	MTWF	PB 0408	Grant
425a-3		American Colonial History	001	12:30	MWF	PB 0307	McCurry
430a-3		Late Modern Europe: 1815-1880	e001	8:30-9:45	T Th	PB 0307	

437b-3	American Military History	001	9:30	MWF	PB 2403	Millett
440a-3	History of American Diplomacy: to 1913	001	1:30	MWF	PB 0307	Weiss
452-3	Historical Research and Thesis Writing	001 e002	9:00-11:40 8:30-9:45	S M W	PB 2406 PB 2406	Santoni Rosenthal
500-4	History Seminar Additional hours TBA.	e001	5:00	W	PB 2406	Riddleberger
510-2 to 5	Readings in History [Consent of faculty chairman]	001	TBA			
575a-3	Studies in Latin American History	e001	5:00-6:15	T Th	PB 2406	Millett
599-1 to 9	Thesis [Consent of faculty chairman]	001	TBA			

HUMANITIES (HUM)

301-3 to 4	Humanities Honors [By permit only] Section 001 –Mysticism vs. Rationalism in the Roman Empire. Section 002–The Search for Authenticity in the Short Story and Poetry of Spanish America (20th Century).	001 e002	2:30 6:30-7:45	MWF T Th	PB 1304 TBA	Drake Ostek
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INSTRUCTIONAL MATERIALS (I M)

308-4	School Library Technical Processes Lab hours TBA.	e001	5:30-8:20	Th	PB 1302	Holzberlein
403-4	School Library Functions and Management Lab hours TBA.	e001	5:30-8:20	W	PB 1302	Holzberlein
406-4	Library Materials for Adolescents Lab hours TBA.	e001	5:30-8:20	T	PB 1302	
417-4	Audio-Visual Methods in Education Student enrolls for one lecture section, one quiz section, and one hour per week self- instruction.	Lect A Lect eB 001 002 003	10:30-12:20 5:30-7:20 9:30 10:30 11:30	T W M M M	PB 1402 PB 0304 PB 0410 PB 0410 PB 0410	Thota Thota

004	2:30	M	PB 0410
005	3:30	M	PB 0410
e006	5:30	M	PB 0410
007	9:30	T	PB 0410
008	12:30	T	PB 0410
009	2:30	T	PB 0410
010	3:30	T	PB 0410
e011	5:30	T	PB 0410
012	9:30	W	PB 0410
013	10:30	W	PB 0410
014	11:30	W	PB 0410
015	2:30	W	PB 0410
016	3:30	W	PB 0410
e017	4:30	W	PB 0410
e018	7:30	W	PB 0410
e019	7:30	W	PB 0304
020	9:30	Th	PB 0410
021	10:30	Th	PB 0410
022	11:30	Th	PB 0410
e023	5:30	Th	PB 0410
e024	6:30	Th	PB 0410
025	9:30	F	PB 0410
026	10:30	F	PB 0410
440-2	Photography for Teachers Lab hours TBA.	T	PB 0411
445-4	Preparation of Teacher-Made Audio-Visual Materials Lab hours TBA for all three sections.	T Th S	PB 0409 PB 0409 PB 0409
530-4	History of Books and Libraries	M	PB 1302
548-4	Supervision and Administration of an Audio-Visual Program	W	PB 0411
549-4	Visual Learning	W	PB 0409
560-4	Seminar in Instructional Materials	Th	TBA
JOURNALISM (JRNL)			
101-3	Introduction to Journalism I	MWF	CB 0186

103-3	News	001	2:30	MWF	CB 0186
370-4	Principles of Advertising [GSB 103b] Additional hour TBA.	001	11:30	MWF	CB 0186
MANAGEMENT SCIENCE (M S)					
280-4	Computer Principles and Application [Non-business students only]	001	8:30-10:20	T Th	CB 0186
310-4	Operations Research for Managers [QM 210, 211, 380] Consent LIFT for Section 002.	001 002	2:30-4:20 2:30-4:20	T Th T Th	PB 2304 PB 3315
380-4	Management Systems I	001 002	10:30-12:20 10:30-12:20	T Th T Th	CB 0186 PB 1312
381-4	Management Systems II [310, 380] Consent LIFT for Section 002.	001 002 e003	2:30-4:20 2:30-4:20 8:30-10:20	MW MW MW	PB 2304 PB 3315 CB 0186
588-4	Seminar in Management Systems [583, QM 513]	e001	6:30-10:20	W	PB 3404
MARKETING (MKTG)					
370-4	Consumer Behavior [GSB 103a,b, GSB 201 c, Econ 201] Consent LIFT for Sections 002 and 004.	001 002 003 004	10:30-12:20 10:30-12:20 2:30-4:20 2:30-4:20	MW MW MW MW	PB 2306 PB 3314 PB 2405 PB 3314
371-4	Principles of Marketing Management [QM 211]	e001	6:30-8:20	T Th	PB 2405
470-4	Marketing Research [371, QM 211]	001	8:30-10:20	MW	PB 2405
471-4	Advertising Policy and Management [470]	001 e002	8:30-10:20 8:30-10:20	T Th T Th	PB 3315 PB 2415
MATHEMATICS (MATH)					
101-4	Fundamental Mathematics	001 002 003	8:30 9:30 10:30	MTWThF MTWThF MTWThF	PB 0314 PB 0314 PB 0314
					Holden Holden G-willim

150a-4	Elementary Calculus and Analytic Geometry [GSD 114c]	004 12:30 005 2:30 006 3:30 +201 10:30 +e202 6:30-8:20 +401 12:30 +e402 6:30-8:20 001 10:30 002 10:30 003 11:30 004 11:30 005 12:30 006 1:30 e007 6:30-8:20	MTWThF MTWThF MTWThF MTWThF M W MTWThF T Th MWThF MTThF MTThF MTWF MTWF MTThF M W	PB 0314 PB 0314 PB 0314 SCI 002 SCI 003 ESL A ESL C SL 1224 SL 1225 SL 1224 SL 1225 SL 1224 SL 1224 PB 0303	Hattermer Fanning Kessler Clemans M. Livingston Lindstrum Oursler
150b-4	Elementary Calculus and Analytic Geometry [150a]	001 9:30 002 1:30	MWThF MTThF	SL 1225 PB 0303	Stephen Sturley
225-4	Programming for Digital Computers [GSD 114a]	001 12:30 12:30 002 12:30 1:30 003 12:30 2:30 004 12:30 3:30 005 12:30 3:30 e006 6:30-8:20	T Th W F T Th T Th T Th T Th T Th M W T Th	PB 1316 CB 0186 PB 1316 CB 0186 PB 1316 CB 0186 PB 1316 CB 0186 CB 0186	Rutledge Rutledge Rutledge Rutledge Rutledge Rutledge Wallace
252a-4	Calculus and Analytic Geometry [150b]	001 8:30 8:30 002 1:30	MTTh W MTThF	SL 1224 SL 1225 SL 3225	Wilson
252b-4	Calculus and Analytic Geometry [252a]	001 11:30	MWThF	PB 0302	Bennewitz
305a-4	Applied Mathematics for Physical Science [252a, Phys 211 c]	001 11:30 11:30 e002 6:30-8:20	MWF Th T Th	SL 3225 SL 1225 SL 1225	Stephen Wilson

310-4	The Teaching of Elementary Mathematics [GSD 112a]	001	8:30	MTThF	SL 1225	Fanning
321-4	Elementary Matrix Algebra [150b]	001 002 e003	12:30 2:30 6:30-8:20	MWThF MTWTh MW	SL 0226 SL 0226 SL 1225	Lazerson Lindstrum Poynor
351-4	Multivariable Calculus [252b]	e001	8:30-10:20	MW	SL 1225	Kessler
395-2 to 5	Readings in Mathematics [12 hours of 300-400 level math, 4.0 average, consent of instructor]	001	TBA			
410a-4	Statistical Analysis [GSD 114a]	e001	4:30-6:20	T Th	SL 1225	Clemans
420a-3	Fundamental Concepts of Algebra [321]	001	2:30	MWF	PB 0303	M. Livingston
433-3	Theory of Point Sets [252b, 6 hours in 300-level courses or higher]	e001	8:00-9:15	T Th	PB 0303	Bennewitz
446b-3	Structure of Mathematics [Experience in teaching or consent of instructor]	e001	6:30-7:45	T Th	PB 0303	Holden
452a-3	Advanced Calculus [252b]	001	1:30	MWF	SL 1225	Hattermer
455a-3	Advanced Mathematics for the Physical Sciences [305b or consent of instructor]	e001	5:00-6:15	T Th	SL 1224	Kurth
458a-3	Finite Mathematics [252a or consent of instructor]	e001	6:30-7:45	T Th	PB 0302	Sturley
472a-3	Computer Science [225, 305a, 321]	e001	8:30-9:45	T Th	CB 0186	Wallace
475a-3	Numerical Analysis [252b or 305a, consent of instructor]	e001	5:00-6:15	MW	CB 0186	Garder
483a-3	Introduction to Mathematical Statistics [252b]	001	12:30	MWF	SL 1225	Pendergrass
501a-3	Real Variables	e001	4:45-6:00	MW	SL 1224	
520a-3	Modern Algebra [420a, concurrent enrollment in 520b]	e001	8:00-9:15	MW	SL 3225	Lazerson

550a-1 to 5 Seminar in Algebra [Consent of instructor]					001	TBA	MATHEMATICS (MATH)					Poynor
550c-1 to 5	550c-1 to 5	Seminar in Analysis [Consent of instructor]			001	TBA						A. Livingston
555a-3	555a-3	Complex Variables [452c]			e001	6:30-7:45	MW		SL 1224			A. Livingston
576a-3	576a-3	Advanced Topics in Applied Mathematics [421, 455]			e001	6:30-7:45	TTh		SL 1224			Garder
580a-3	580a-3	Mathematical Methods of Statistics [452 or 455]			e001	8:00-9:15	MW		SL 1224			
595-1 to 5	595-1 to 5	Special Project			001	TBA						
599-1 to 5	599-1 to 5	Thesis			001	TBA						
MUSIC (MUS)												
001a-1	001a-1	Symphonic Band [By permit only]			001	12:30-2:20	MWF		CB 1029			Fjerstad
001b-1	001b-1	University Band			001	12:30-2:20	TTh		CB 1029			Oberlag
001c-1	001c-1	Stage Band [By permit only]			001	10:30	TTh		CB 1029			
002c-1	002c-1	Male Chorus			001	2:30	MWF		CB 0158			Van Camp
002d-1	002d-1	Women's Glee Club			001	2:30	MWF		CB 1029			
002e-1	002e-1	SIU Community Choral Society			e001	7:30-9:20	T		PB 1402			Van Camp
002g-1	002g-1	Concert Chorale [By permit only]			001	11:30	MTWTh		CB 1029			Van Camp
003-1	003-1	University Symphony Orchestra [By permit only]			e001	8:00-10:00	T		CB 1029			Schieber
010a-1	010a-1	Class Applied Music-Strings			001	1:30	MWF		CB 0158			Schieber
010c-1	010c-1	Class Applied Music-Brass			001	10:30	MWF		CB 1029			Fjerstad
010e-1	010e-1	Class Piano			001	8:30	MWF		PB 3406			
		Section 001—second year concentrations;			002	9:30	MWF		PB 3406			
		Section 002—first year concentrations;			003	8:00-9:20	TTh		PB 3406			
		Section 003—non-majors;			004	1:30	MWF		PB 3406			
		Section 004—mixed.										

010f-1	Class Applied Music-Voice	001	9:30	MWF	CB 1029	
105a-4	Theory of Music	001	8:30	MTWThF	CB 0194	
		002	1:30	MTWThF	CB 0194	Pival
		003	2:30	MTWThF	CB 0194	Perry
106a-5	Techniques and Literature of Music Practice	001	8:30	MTWThF	PB 3404	Warren
140a-u 2 or 4	Private Applied Music [By permit only]	001	TBA			
	a. Violin	h. Bassoon			o. Tuba	
	b. Viola	i. Saxophone			p. Baritone	
	c. Cello	j. Percussion			q. Voice	
	d. String Bass	k. Piano*			r. Organ	
	e. Flute	l. French Horn			s. Harpsichord	
	f. Oboe	m. Trumpet			t. Harp	
	g. Clarinet	n. Trombone			u. Guitar	
*Piano students must also concurrently enroll in 163; see also 356.						
200-3	Fundamentals of Music	001	11:30	MWF	PB 3404	
		002	11:30	MWF	PB 3406	
205a-3	Theory of Music	e001	4:30	MTWTh	CB 0194	Oberlag
		002	10:30	MTWTh	PB 3404	
206a-5	Techniques and Literature of Music Practice [By permit only]	001	9:30	MTWThF	PB 3404	Warren
240a-u 2 or 4	Private Applied Music [By permit only] See requirements stated in 140a-u; piano students must also concurrently enroll in 263.	001	TBA			
300-3	Music Education - Elementary	001	3:30-5:20	T Th	PB 3404	Tulloss
301a-3	Music Education	001	2:30	MWF	PB 3404	Tulloss
307-4	Recreational Music Additional hour TBA.	e001	5:30	MWF	PB 3404	
309a-3	Orchestration	001	9:30	MWF	CB 0158	Tarwater

Composition Additional hour TBA.		001	3:30	T Th	CB 0194
312a-3	Analysis Additional hour TBA.	001	2:30	T Th	PB 3404 Warren
326a-3	Private Applied Music [By permit only] See requirements stated in 140a-u; piano students who have not completed six quarters in 163 and 263 must concurrently enroll in 263.	001	TBA		
340a-u 2 or 4	Chamber Music Ensemble - Brass [By permit only]	001	11:30	T Th	CB 0158
355a-1	Chamber Music Ensemble - Woodwind [By permit only]	001 002	TBA TBA		Oberlag Oberlag
355b-1	Chamber Music Ensemble - Strings [By permit only, string quartet members only]	001	TBA		
355c-1	Music History and Literature	001	3:30	MWF	Henderson
37a-3	Private Applied Music [By permit only] See requirements stated in 140a-u and 356.	001	TBA		
440a-u 2 or 4	Contrapuntal Forms	e001	4:30	MWF	PB 3404 Kresteff
461a-3	Teaching Techniques and Materials for the Beginning and Intermediate Levels	001	1:30	MWF	PB 0160 Premezzi
481-2 to 6	Readings in Music Theory [By permit only]	001	TBA		
482-2 to 6	Readings in Music History-Literature [By permit only]	001	TBA		
483-2 to 6	Readings in Music Education [By permit only]	001	TBA		
499-1 to 3	Independent Study [By permit only]	001	TBA		
501-3	Introduction to Graduate Study in Music	e001	5:30-8:20	M	CB 0194 Blakely
519a-3	Vocal Pedagogy and Literature	e001	4:30	MWF	TBA Moore
					MUSIC (MUS)
					69

540a-u 2 or 4	Private Applied Music [By permit only] See requirements stated in 140a-u.	001	TBA				
553b-3	Seminar in Materials and Techniques - Instrumental	e001	5:30-8:20	W	CB 0194	Fjerstad Tarwater	
560-2 to 6	Seminar in Music Education	e001	5:30-8:20	T	CB 0194	Joseph Tarwater	
566-1	Instrumental Ensemble [By permit only]	001	TBA			Fjerstad Schieber	
567-1	Choral Ensemble [By permit only]	001	TBA			Van Camp	
599-3 to 9	Thesis [By permit only]	001	TBA				
NURSING (NURS)							
280a-4	Nursing and Community Health One hour skills-lab TBA for all sections.	001	8:00-11:50 1:30-3:20 3:30	M F M	Hospital LB 0005 PB 2306		
		002	8:00-11:50 1:30-3:20 3:30	T M M	Hospital LB 0005 PB 2306		
		003	8:00-11:50 1:30-3:20 3:30	T W M	Hospital LB 0005 PB 2306		
301-8	Nursing I	001	9:30-11:20 8:00-2:20	M F T W	PB 1304 Hospital		
302-8	Nursing II	001	9:30-11:20 9:30-11:20 8:00-2:20	M F T W	PB 1302 PB 3303 Hospital		
325a-4	Nursing IV	001	9:30-11:20 8:00-2:20	M W	PB 1410 Hospital		
		002	9:30-11:20 8:00-2:20	M F	PB 1410 Hospital		
363b-4	Nursing III	001	8:00-2:20 12:30-2:20	T M	Hospital PB 2304		

385-1 to 4 Independent Study [By permit only, consent of instructor]

PERSONNEL (PERS)

450-4	Personnel Administration [GBA 340]	001	8:30-10:20	MW	PB 3315	
451-4	Labor Relations Law and Collective Bargaining [GBA 340]	001	10:30-12:20	T Th	PB 2405	
		e002	8:30-10:20	T Th	PB 2410	

PHILOSOPHY (PHIL)

200-4	Introduction to Philosophy	001	9:30	MTWTh	PB 1306	Barker
301-4	Philosophy of Religion [Sophomore standing]	e001	6:30-8:20	T Th	PB 0413	F. Marti
302-4	World Religions [Sophomore standing]	001	10:30	MTThF	PB 0309	Linden
385a-4	History of Western Philosophy: Ancient [Sophomore standing]	001	1:30	MTWTh	PB 0309	Emblom
385b-4	History of Western Philosophy: Medieval and Renaissance [sophomore standing]	001	12:30	MTThF	PB 0406	Corr
386-4	American Philosophy [Sophomore standing]	001	11:30 11:30	T Th W F	PB 0309 PB 0304	Broyer
391-4	Introduction to Theory of Knowledge [Sophomore standing]	001	2:30	MTWTh	PB 0309	Barker
484a-4	History of Western Political Theory (Same as Govt 484a) [Junior standing]	001	10:30	MTWTh	PB 1311	Mace
490-4	Special Problems: Kant	001	TBA			F. Marti
495-2 to 12	Independent Readings	001	TBA			

502a-2	Methods of Teaching Philosophy [Graduate standing]	001	TBA			Glossop
546-4	Empiricism [Graduate standing]	e001	6:30-8:20	T Th	PB 1304	Keene
565-4	Ethical Theory [Graduate standing]	e001	4:30-6:20	T Th	PB 3317	Seligman
PHYSICAL EDUCATION (PE)						
025-0	Orientation	001	10:30	F	PB 2412	Showers
303-5	Kinesiology	001	3:30	MTWThF	PB 2412	Archangel
323a,b,c-1	Officiating Techniques	001	TBA			Guelker
341-3	Principles of Physical Education	001	12:30-2:00	T Th	PB 2412	Moehn
348-3	Camp and Community Leadership	001	11:30	MWF	PB 2412	Bobka
350-4	Methods and Materials for Teaching Physical Education Activities in the Elementary School Additional eight hours TBA for Sections 003 and 004.	001	10:30-12:20	T Th	LB 0033	Moehn
		002	12:30-2:20	M W	LB 0033	Luedke
		e003	5:30-8:20	W	LB 0033	Luedke
		e004	5:30-8:20	M	LB 0033	Moehn
365-2	Organization and Administration of Community Recreation	001	9:30	T Th	PB 0309	Lee
370-4	Tests and Measurements in Physical Education	001	12:30	M W	PB 2412	Showers
			12:30-2:20	F	PB 2412	
382-4	Methods and Materials for Teaching Physical Education Activities in the Secondary School [Consent of instructor]	001	10:30	MTWTh	PB 2412	Lee
389-4	Affiliation in Physical Education	001	TBA			Herrold
475-4	Individual Research	001	TBA			Herrold
501-4	Curriculum in Physical Education	e001	5:30-7:20	T Th	LB 0033	Archangel
502-4	Foundation of Motor Skills	e001	6:30-9:50	M	PB 2412	Showers

206a-5	College Physics [GSD 114a]	001 11:30 12:30-2:20 002 11:30 2:30-4:20	MTWThF F MTWThF F	SL 0226 SL 1218 SL 0226 SL 1218
211a-4	University Physics [Concurrent enrollment in Math 150a] Student enrolls for one lecture and one problem session.	Lect A Lect eB 001 002 003 004 005 006 007 008 e009 001 002 003 004 005 006 007 008 e009 001 002 003 004 001 002 003 004	MWF MTTh T Th T Th T Th T Th T Th T Th T Th M Th	SL 1105 SL 1105 SL 1210 PB 3302 PB 3302 PB 1309 PB 2413 PB 2306 PB 2414 PB 1312 SL 1105
212a-1	University Physics Laboratory [Concurrent enrollment in 211a]	001 002 003 004 005 006 007 008 e009 e010	M T W Th T W Th F T W F	SL 1218 SL 1218 SL 1218 SL 1218 SL 1218 SL 1218 SL 1218 SL 1218 SL 1218 SL 1218 SL 1218
300a-4	Introduction to Modern Physics [206 or 211, Math 150b]	001 12:30 002 9:30 12:30	MWF T Th MWF T Th	SL 1210 PB 0307 SL 1210 PB 0309
300b-1	University Physics Laboratory IV [212, concurrent enrollment in 300a]	001 002 003 004	T W T Th	SL 0212 SL 0212 SL 0212 SL 0212
301a-4	Introduction to Classical Mechanics [211a, Math 252b]	001 8:30	MTThF	PB 0403

304-4	Thermodynamics and Kinetic Theory [211b]	e001	6:00-7:50	M W	SL 0226	
419-4	Introduction to Theoretical Physics [Math 305]	e001	6:00-7:50	T Th	SL 0226	
420-2 to 5	Special Projects	001	TBA			
435-3	Plasma Physics [305a,b]	001	1:30	MWF	SL 0226	
510a-3	Classical Mechanics	e001	8:00-9:20	T Th	SL 0226	
531a-3	Quantum Mechanics	e001	8:00-9:20	M W	SL 0226	
590-1 to 5	Research in Physics	001	TBA			
PRODUCTION (PROD)						
460-4	Production Management [GBA 340]	001	8:30-10:20	T Th	PB 3303	
461-4	Methods Design and Work Measurement	001 e002	10:30-12:20 6:30-8:20	T Th T Th	PB 3316 PB 3404	
PSYCHOLOGY (PSYC)						
211a-4	Principles and Methods of Psychology [GSB 201c]	001	9:30	T Th	PB 0304	McLaughlin
			10:30-12:20	M	SL 2212	
		002	9:30	T Th	PB 0304	McLaughlin
			10:30-12:20	T	SL 2212	
		003	9:30	T Th	PB 0304	McLaughlin
			10:30-12:20	W	SL 2212	
		004	9:30	T Th	PB 0304	McLaughlin
			10:30-12:20	F	SL 2212	
211b-4	Principles and Methods of Psychology [GSB 201c]	001	8:30-10:20	M W	PB 0412	Brinkmann
		002	12:30-2:20	T Th	PB 2304	Starr
301-4	Child Psychology [GSB 201c]	001	8:30-10:20	T Th	PB 3305	Traxler
		002	12:30-2:20	M W	PB 3305	Traxler
		e003	4:30-6:20	T Th	PB 3315	Kuenzli
		e004	6:30-8:20	M W	PB 0312	

304-4	Psychology of Maturity and Old Age [GSB 201c]	001	12:30-2:20	T Th	PB 3316	Traxler
305-4	Introduction to Personality Dynamics [GSB 201c]	001	12:30-2:20	T Th	PB 3305	Taliana Kuenzli
		002	10:30-12:20	T Th	PB 3305	
		e003	5:30-7:20	T Th	PB 1412	
307-4	Social Psychology [GSB 201c]	001	11:30-1:20	T	PB 0302	Engbretson
			11:30-1:20	Th	PB 0306	
		e002	6:30-8:20	M W	PB 1306	
311-4	Experimental Psychology: Learning [211a,b]	001	8:30-10:20	M W	SL 2212	Ferguson
		002	1:30-3:20	T Th	SL 2212	
312-4	Experimental Psychology: Perception [311]	001	8:30-10:20	T Th	SL 2212	Kohfeld
314-4	Experimental Psychology: Comparative and Physiological [311]	001	1:30-3:20	M W	SL 2212	
320-4	Industrial Psychology [GSB 201c]	001	1:30-3:20	M W	PB 0406	Daugherty
409-4	History and Systems [311]	001	2:30-4:20	M W	PB 3302	McMahon McCall
		002	11:30-1:20	T Th	PB 0409	
420-4	Experimental Analysis of Behavior [GSB 201c] Four Friday sessions, fifth through eighth week.	e001	5:30-8:20	M F	SL 2212	McLaughlin
421-4	Psychological Tests and Measurements [211b]	001	2:30-4:20	M W	PB 0411	Brinkmann
431-4	Psychopathology [305] Section 002 meets first four Fridays only.	001	10:30-12:20	M W	PB 0411	Taliana McMahon
		e002	5:30-8:20	Th F	PB 0314	
432-4	Mental Hygiene [305]	001	8:30-12:20	S	PB 3305	Starr
440-4	Theories of Personality [305] Four Friday sessions, fifth through eighth week.	e001	5:30-8:20	M F	PB 3302	Behring
465-4	Group Dynamics and Individual Behavior [307] Section 002 meets first four Fridays only.	001	2:30-4:20	T Th	PB 0411	McMahon Russo
		e002	5:30-8:20	W F	PB 2415	

474-4	Psychology of Employee Relations [320] Four Friday sessions, fifth through eighth week.	e001	5:30-8:20	M F	PB 2413	Daugherty
490-1 to 4	Independent Projects [Concentration in psychology, consent of chairman]	001	TBA			
501a-4	Proseminar in General Psychology [Admission to graduate program in psychology]	e001	5:30-7:20	T Th	PB 3102	Kohfeld, McCall, McLaughlin
520-4	Research Design and Inference I [211b]	e001	7:30-9:20	T Th	PB 3102	Brinkmann
530-4	Personality Theory and Dynamics [440]	e001	5:30-8:20	M	PB 3317	Clodfelder
541a-4	Psychodiagnostics I [211b, 421, consent of instructor]	e001	5:30-8:20	W	PB 3317	Taliana
590-4	Readings in Psychology [Consent of chairman]	001	TBA			
591-4	Research in Psychology [Consent of chairman]	001	TBA			
593-2 to 4	Practicum in Psychology [Consent of instructor and chairman]	001	TBA			
593s-2 to 4	Practicum in Psychology: School Psychology [Consent of instructor and chairman]	001	TBA			
599-2 to 4	Thesis [Consent of chairman]	001	TBA			
QUANTITATIVE METHODS (Q M)						
210-4	Introduction to Quantitative Methods [GSD 114a] Consent LIFT for Sections 002 and 004.	001	8:30-10:20	M W	PB 3305	
		002	8:30-10:20	M W	PB 3314	
		003	12:30-2:20	M W	PB 3303	
		004	12:30-2:20	M W	PB 3314	
		e005	6:30-8:20	M W	PB 3303	
510-4	Statistical Analysis for Decision Making [MBA students only]	e001	6:30-10:20	M	PB 3404	

SCIENCE AND TECHNOLOGY (SC & T)

SL 0226

SL 0226

SPECIAL EDUCATION (SP ED)

353-8 to 16	Special Education Student Teaching [By permit only]	001	TBA			
410a-4	Problems and Characteristics of the Emotionally Disturbed Child [414] Meets first four Fridays only.	e001	5:30-8:20	MF	PB 0403	
410b-4	Problems and Characteristics of the Mentally Retarded Child [414] Section 002 meets first four Fridays only.	001 e002	1:30-3:20 5:30-8:20	MW TF	PB 2306 PB 3303	
410c-4	Problems and Characteristics of the Gifted Child [414, by permit only] Section 002 meets first four Fridays only.	001 e002	8:30-12:20 5:30-8:20	S Th F	PB 0406 PB 2414	
410g-4	Problems and Characteristics of the Learning Disabled Child [414]	001	3:30-5:20	T Th	PB 0408	
413a-4	Directed Observation of the Emotionally Disturbed [410a or concurrent enrollment]	001	TBA			
413b-4	Directed Observation of the Educable Mentally Handicapped [410a or concurrent enrollment]	001	TBA			
413c-4	Directed Observation of the Gifted [410a or concurrent enrollment]	001	TBA			
414-4	The Exceptional Child [C Ed 305] Section 002 meets first four Fridays only.	001 e002	10:30-12:20 5:30-8:20	T Th W F	PB 0412 PB 2405	
420b-4	Methods and Materials in the Education of the Educable Mentally Handicapped [410b] Meets first four Fridays only.	e001	5:30-8:20	MF	PB 0412	
428-4	Speech Correction for the Classroom Teacher (Same as SP & A 428) Additional hours TBA.	e001	5:30-8:20	Th	CB 2012	Taylor
430-4	Behavior Modification in Special Education [Psync 420]	e001	5:30-8:20	W F	PB 1410	

501-4	Special Research Problem [By permit only]	001	TBA						
577-4 to 8	Practicum in Special Education [By permit only]	001	TBA						
590a-4	Seminar: Mental Retardation [By permit only]	e001	5:30-8:20	W	SL 3114				
SPEECH (SPCH)									
104-4	Training the Speaking Voice	001	8:30	MTThF	CB 2012	Maag			
205-3	Principles of Argumentation and Debate	001	1:30-3:20	T Th	PB 0307	Salden			
224-4	Communicative Reading	001	9:30	MWThF	PB 2413	Stoppe			
301-4	Persuasion	001	9:30-11:20	T Th	PB 2406	Hawkins			
417-4	Contemporary Public Address Additional hours TBA.	e001	5:30-8:20	M	CB 0186				
532-2	Areas and Techniques of Research	e001	5:30-7:20	W	CB 0186	Stoppe			
SPEECH PATHOLOGY AND AUDIOLOGY (S P & A)									
200-4	Phonetics	001	10:30	MWThF	CB 2012	Taylor			
212-4	Articulatory Problems and Delayed Speech	001	11:30	MWThF	CB 2012	Liebllich			
405a-4	Practicum in Speech and Hearing Therapy [Junior standing] Additional hours TBA.	001	8:30	W	CB 2012	Haines			
414-4	Anatomy and Physiology of Speech and Hearing Mechanism	001	1:30	MWThF	CB 2012	Carey			
416-4	Introduction to Audiology [406]	001	9:30	MWThF	CB 2012	Maag			
428-4	Speech Correction for the Classroom Teacher (Same as Sp Ed 428) Additional hours TBA.	e001	5:30-8:20	Th	CB 2012	Taylor			
515-1 to 4	Readings in Speech Pathology [Graduate standing] Additional hours TBA.	e001	5:30	W	CB 2012	Liebllich			

522a-4	Seminar in Organic Speech Problems: Cleft Palate [Graduate standing] Additional hours TBA.	e001	5:30-8:20	T	CB 2012	Carey
THEATER (THEA)						
100-0,2,4, or 6	First Year Work in Theater [Consent of director of theater]	001	TBA		CB 2015	
200-0,2,4, or 6	Second Year Work in Theater [Consent of director of theater]	001	TBA		CB 2015	
300-0,2,4, or 6	Third Year Work in Theater [Consent of director of theater]	001	TBA		CB 2015	
400-0,2,4, or 6	Fourth Year Work in Theater [Consent of director of theater]	001	TBA		CB 2015	
Students enrolling in Theater 100-400 must be advised by the Director of University Theater, Dr. Kluth, CB 1038, before their appointment with General Studies Advisement and before registering. Students will be assigned the following hours according to the amount of credit taken:						
Acting/Directing Studio			2:30-5:20	MW	CB 2015	
Dance/Stage Movement Studio			2:30-5:20	MW	PB 1308	
			9:30-10:20	MWThF	CB 2015	
			10:30-11:20	MWThF	CB 2015	
			11:30-12:20	MWThF	CB 2015	
			12:30-1:20	MWThF	CB 2015	
Design/Technical Theater Studio			2:30-5:20	T Th	CB 2015	
			1:30-2:20	MWF	CB 2019	
			1:30-2:20	Th	CB 2019	
			2:30-4:20	F	CB 2019	
Business Practices Studio			1:30-2:20	T Th	CB 2015	
			6:30-9:20	MTWThF	CB 2015	
403-4	Dramatic Theory and Criticism Additional hours TBA.	e001	5:30-8:20	T	PB 2413	Archer
410-2	Children's Theater	001	9:30	MWF	CB 0194	Branham

Additional hours TBA.

TELEVISION-RADIO (TV-R)

200-4 Survey of Broadcasting
Additional hour TBA for both sections.

001 10:30 MWF CB 0194
002 11:30 MWF CB 0194

201a-4 Broadcast Writing - Radio
Additional hour TBA for both sections.

001 12:30 MWF CB 0194
002 9:30 MWF CB 0186

202-4 Broadcast Performance [201a,b]
Lab TBA.

001 9:30 T Th CB 1012

300-5 Radio Production [201a]

001 10:30 T Th CB 0194
1:30-5:20 MW CB 0133
002 11:30 T Th CB 0194
1:30-5:20 T Th CB 0133

301-5 Television Production [300]

001 10:30-12:20 M CB 1021
10:30-11:20 W CB 1021
11:30-1:20 T CB 1012
12:30-2:20 Th CB 1012
002 10:30-12:20 T CB 1021
10:30-11:20 Th CB 1021
1:30-3:20 W CB 1012
10:30-12:20 F CB 1012

302-4 Broadcasting News [201 or Jml 103]
Additional hour TBA.

001 10:30 MWF CB 0186

405-4 Television Documentary [Consent of instructor]
Lab TBA.

001 2:30-4:20 T Th CB 1021

VOCATIONAL-TECHNICAL INSTITUTE (VTI)

CCS 111-2 Audio-Visual Aids

e001 6:30-8:20 Th SL 3225

CCS 115-2 Art and Music
Additional three hours TBA.

e001 7:30 T PB 0403 Naylor

TECHNICAL AND ADULT EDUCATION (T & AE)

English Review

e001	6:30-8:20	T	PB 0412
e002	6:30-8:20	Th	PB 0412
e003	6:30-8:20	W	PB 1315
e004	8:30-10:20	W	PB 1315

Reading Improvement

e001	4:30-6:20	T	PB 0412
e002	4:30-6:20	Th	PB 0412
e003	6:30-8:20	W	PB 0412
e004	8:30-10:20	W	PB 0412

Quarter _____ Year _____

The General Studies student should submit this form to General Studies Advisement; the non-General Studies student to the sectioning center.

[illegible]

Address

(Number and Street) (City and State) (Phone Number)

Secondary Concentration

Class _____ Day () Evening () Number of hours student works _____

[illegible]



Southern Illinois University *Bulletin*

*Schedule for Late Afternoon,
Evening, and Saturday Classes,
Edwardsville Campus*

Fall Quarter, 1969



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Contents

University Calendar	iii
Registration Calendars	iv
GENERAL INFORMATION	1
Guaranteed Center Schedules	1
Admission	1
Social Security Number	1
Required Tests	2
Advisement	2
Required Physical Examinations	2
Registration	3
New Students	3
Re-Entering Students	3
Current Students, Edwardsville Campus	3
Current Students, Carbondale Campus	4
Payment of Fees	4
Fees for a Regular Quarter	4
Late Registration Fee	5
Changing Fee Status	5
Academic Load	5
Prerequisites	6
Auditing of Courses	6
Registering for and Dropping Courses	6
Withdrawal from School	7
Cancellation of Registration	7
Personal Data Changes	7
Hospitalization	7
SCHEDULE OF CLASSES	9
Explanation of the Schedule	9
Final Examinations	10
For More Information	10
Listing of Classes	11
COURSE DESCRIPTIONS	35

University Calendar

<i>SUMMER, 1969</i>	Quarter Begins	Tuesday, June 17 (Classes 4:30 P.M. or later)
	Independence Day Holiday	Friday, July 4
	Final Examinations	Monday–Friday, August 25–29
	Commencement (Edwardsville)	Friday, August 29
	Commencement (Carbondale)	Saturday, August 30
<i>FALL, 1969</i>	New Student Week	Sunday–Tuesday, September 21–23
	Quarter Begins	Wednesday, September 24 (Classes 4:30 P.M. or later)
	Thanksgiving Vacation	Tuesday, 10 P.M.– Monday, 8 A.M., November 25–December 1
	Final Examinations	Monday–Saturday, December 15–20
<i>WINTER, 1970</i>	Quarter Begins	Monday, January 5 (Classes 4:30 P.M. or later)
	Final Examinations	Monday–Saturday, March 16–21

Registration Calendars, Fall, 1969

EDWARDSVILLE CAMPUS

July 9–September 24.

General Studies Advisement, by appointment (call General Studies Office).

August 4–16.

Registration, by appointment. Mon.–Thurs. 8:00–11:00 A.M., 1:00–6:30 P.M.; Fri. 8:00 A.M.–12:00 noon; Sat. 8:00 A.M.–2:00 P.M.

August 18–26, September 3–5, 22–23.

Open registration. Mon.–Thurs. 8:00–11:00 A.M.; 1:00–6:30 P.M.; Fri.–Sat. 8:00 A.M.–12:00 noon.

September 24.

Central registration. 8:00 A.M.–6:30 P.M.

ALTON CENTER

Registration will be held in the Student Union.

September 13.

Open registration. 9:00 A.M.–3:00 P.M.

EAST ST. LOUIS CENTER

September 6.

Open registration. 9:00 A.M.–3:00 P.M.

ALL LOCATIONS

September 24.

Evening classes (4:30 P.M. or later) begin.

September 25.

Day classes begin.

October 1.

Last day to add a class.

October 8.

Last day to be eligible for a refund of fees.

October 22.

Last day to withdraw from a class without receiving a grade.

December 1.

Last day to withdraw from school or a class.

1 / General Information

THIS BULLETIN contains the schedule of classes to be offered at the Edwardsville Campus and the Alton and East St. Louis centers in the late afternoon, evening, or on Saturday for the fall quarter of the 1969-70 school year. It also provides information relative to advisement and registration, fees, and allied information.

The Edwardsville Campus provides a full schedule of class offerings for day and evening students. Freshman and sophomore courses are scheduled for day and evening students at the Alton and East St. Louis centers.

Guaranteed Center Schedules

A program of Guaranteed Schedules for the centers has been established. Certain courses and sections at the centers are guaranteed on schedules extending through the fall, winter, and spring quarters. These classes will not be cancelled; they are coordinated to offer a variety of full-time academic programs for the incoming freshman as a day student, and they permit efficient progress for the new freshman evening student.

Classes at the centers marked with a + in the schedule are part of this program. For details concerning the full year's schedules, see the separate brochure for each center.

Admission

Inquiries concerning admission to Southern Illinois University should be directed to the Admissions Office at Edwardsville. Applications for admission are accepted at any time during the calendar year but should be initiated at least 30 days prior to the start of the quarter which the student plans to attend.

A student must be officially admitted to the University before registration for classes will be permitted. Students who have not completed the admission requirements by the first day of the quarter will not be permitted to register. A student, to be permitted to attend classes at Southern Illinois University, must have completed registration, which includes admission, advisement, sectioning, and payment of fees.

Social Security Number

Each student seeking admission to the University will need to present a social security number for identification purposes. Any local social security office can provide assistance in obtaining a number or replacing a lost card.

At Alton the social security office is at 1623 Washington Street; at East St. Louis the office is at 435 Missouri Avenue; at Edwardsville the Illinois State Employment Office, 111 West Vandalia, provides social security information.

Required Tests

Each student entering Southern Illinois University directly from high school is required to furnish to the University scores on the test battery administered by the American College Testing Program (A.C.T.). These tests are given at regional test centers throughout the United States in October, December, February, May, and August. Information and application blanks are normally available through the high school guidance director or principal, or may be obtained by writing directly to: American College Testing Program, Box 168, Iowa City, Iowa.

A student who finds it impossible to take the A.C.T. tests may have scores from the College Entrance Examination Board (C.E.E.B.) submitted. The specific scores, which must be submitted if the C.E.E.B. tests are submitted, are Scholastic Aptitude Test, English Composition Test, and Mathematics (Intermediate) Test. In order to have identical test data, a student who submits C.E.E.B. test data will be required to submit scores from the A.C.T. no later than one month after registration.

Transfer students are required to furnish A.C.T. scores to the Student Counseling and Testing Center. (A transcript of these scores is available by sending one dollar and a written request to the American College Testing Program in Iowa City.) If the scores are on file at the student's former school, a request should be made for their forwarding. Test scores are not normally sent with a person's transcript of grades and must be requested separately from the appropriate office at the former school. If the A.C.T. tests have not been taken, arrangements to do so should be made.

Advisement

The advisement system requires all new students to have initial advisement through the General Studies Advisement Office. These offices are maintained at each of the centers for the convenience of the student. Freshmen and sophomores will continue to be advised each quarter prior to registration. Following the student's declaring a major (between reaching 64 and 96 hours of credit), the student is assigned to an adviser in his concentration area. Each student is required to declare a concentration upon achieving 96 hours of credit. Probationary students are also required to receive advisement prior to registration.

Graduate students, both classified and unclassified, must have their schedule approved at the Graduate Office before registering.

Students with a declared major in the Education Division must receive advisement from the Division office prior to registering.

All students should arrange to have advisement early to be sure their schedules will be approved before their registration.

Required Physical Examinations

Each new student desiring to enroll at Southern Illinois University is required to have a physical examination completed prior to his initial registration for classes. A special medical form is provided which is to be completed by the student and his personal physician and returned to the University Health Service.

Registration

Students may register at Edwardsville for classes at any location (see Edwardsville Registration Calendar, p. iv). Students wishing classes at the Alton or East St. Louis Centers, or at a Center and at Edwardsville, may register at that Center during the periods listed on the applicable Registration Calendar. All General Studies students are required to have approval of their schedule by the General Studies Advisement Office.

Each classified graduate student must have his schedule approved by his adviser and the Dean of the Graduate School before registering for classes at the Enrollment Center. Unclassified graduate students need only the approval of the Dean of the Graduate School. Special cards for this purpose are available at the Graduate Office, 2202 General Offices and Services Building.

During the registration process the student goes to the enrollment office where the assignment is made to specific sections of the courses he is to take.

New Students

Students entering the University for the first time are permitted to register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admissions.

Dates for new undergraduate students, freshmen and transfer, will be selective ones in which the students are asked to come to the campus on specific registration dates as determined by the University. Students should not expect to be advised and registered on the same date they are admitted. Appointments for registration will be mailed from the Registrar's Office.

New graduate students after advisement may register during the registration period as shown on the Registration Calendars on page iv. Arrangements should be cleared with the Graduate School to assure that the appropriate adviser will be available before coming to the campus.

Re-Entering Students

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to register during the periods outlined in the Registration Calendar. Readmission must be completed prior to registration.

Current Students, Edwardsville Campus

For admittance to registration students previously enrolled must present their Southern Illinois University ID cards. No one will be permitted to register without an ID card. Each student currently registered in the University will be continued in his present course of study unless a change of concentration is made. A change of concentration is initiated with the chief academic adviser. The change should be made at the time of advisement; the registrar's copy of the change form should accompany the student's registration. A change of concentration made after a registration has been processed will not be reflected in the student's record until the next registration.

Upperclass students who have declared a concentration and who are currently registered in the University may be self-advised for registration purposes. This does not apply to Business Division or Education Division students. Academic advisement is available and is very desirable. The student should prepare his desired program of classes at each registration period and process through the sectioning area of the enrollment office in accordance with the time of his appointment in order to best achieve the desired schedule of classes and time periods.

Current Students, Carbondale Campus

A student currently enrolled in and attending classes on the Carbondale Campus who desires to register on the Edwardsville Campus will initiate his registration at the sectioning area of the enrollment center in Edwardsville in accordance with the registration calendar except that he may register on the first day of the quarter. Each student will complete the intra-university transfer data form to secure information necessary for the Edwardsville data processing center preparation of registration materials. The student who registers on the first day of the quarter should present his most recent grade report to confirm scholastic eligibility to register.

For the purpose of advisement, the student may wish to have a copy of his transcript sent to the Edwardsville Campus prior to registration.

Payment of Fees

All fees are payable at the time of registration. Upon payment of fees, the fee statement and receipt card will be stamped by the Business Office and returned to the student as a fee receipt. The card should be carried at all times. It serves as official authorization to attend classes as scheduled and must be presented to obtain books and activity cards and to process program changes.

Students unable to pay fees at the time of registration may secure short-term loans from the Student Work and Financial Assistance Office. This must be done before registering.

Fees for a Regular Quarter

The fee schedule is as follows: *

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident	\$22.00	\$45.00	\$67.00
Tuition Fee—Out of State Resident	(69.00)	(137.00)	(206.00)
Student Welfare and Recreation			
Building Trust Fund Fee	5.00	10.00	15.00
Book Rental Fee	3.00	6.00	8.00
Student Activity Fee	3.50	7.00	10.50
University Center Fee	5.00	5.00	5.00
Athletic Fund Fee	3.00	6.50	10.00
<i>Total</i> —Illinois Resident	\$41.50	\$79.50	\$115.50
<i>Total</i> —Out of State Resident	(88.50)	(171.50)	(254.50)

* Fees are subject to change whenever conditions make changes necessary.

Graduate students do not rent their textbooks and do not pay the book rental fee. They purchase their books.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status. Prior to registration this student will go to the Student Work and Financial Assistance Office to secure certification.

Late Registration Fee

The first day of a quarter is considered the last day of the regular registration period. Registrations thereafter, including those for classes "to be arranged" are considered late registrations and are assessed a late registration fee of \$5.00.

Changing Fee Status

Students making program changes which result in their changing from one fee status to a higher fee status will be assessed additional tuition and fees. Students changing from a higher fee status to a lower fee status may apply for a refund provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University are eligible for a refund. This is usually during the first ten days. For dates refer to the Registration Calendars on page iv.

Academic Load

The normal class load is 16 quarter hours for undergraduate students and 12 quarter hours for graduate students. The maximum load for both is 18 hours. A student with a 4.25 average or above for the preceding quarter may be allowed by written permission of the chief academic adviser or by the dean of his division to take as many as 21 hours. In no case may a student carry or be credited with more than 21 hours in any quarter. A student on probation may not take more than 14 quarter hours.

A person should not register for more than 8 hours if he is employed full time.

The Selective Service System requires a minimum of 12 hours for an undergraduate and 8 hours for a graduate to qualify for a student deferment. There is a further requirement that he complete 48 hours each year.

The National Defense Education Act requires a minimum of 12 hours to qualify for a student loan.

For students receiving benefits under the "GI Bill" (P.L. 358) the following regulations apply:

	<i>Undergraduate</i>	<i>Graduate</i>
Full benefits	14 or more hrs.	12 or more hrs.
$\frac{3}{4}$ benefits	10-13 hrs.	9-11 hrs.
$\frac{1}{2}$ benefits	7-9 hrs.	6-8 hrs.

Prerequisites

Students are responsible for checking course prerequisites in the undergraduate and graduate catalogs and in this class schedule. Those who do not have specific prerequisites for a course may register for it only if they have had a comparable course or have written consent of the instructor.

Auditing of Courses

A student may register for courses in an "audit" status. He receives no letter grade and no credit for such courses. An auditor's registration card must be marked accordingly. He pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter.

Registering for and Dropping Courses

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program adjustment be approved permitting registration in that class. A student is officially registered only for those courses and sections appearing on his registration cards. Changes can be made only after fees are paid and must be made through an official program change at the Enrollment Center.

A student desiring to make a program change must secure approval of his adviser. He will then go to the Enrollment Center. (A student at East St. Louis or Alton may initiate his request to drop a course by going to the General Office.) He is required to present his fee receipt program card and must complete the following procedure. (1) After having been cleared with the Enrollment Center, program changes for which a program change fee is assessed must be presented to the Business Office for payment. (2) The student immediately returns the program change to the Enrollment Center in the Registrar's Office for final processing. (3) A student has not completed his program change until he presents it to the Enrollment Center. **NO CHANGE IS OFFICIAL UNTIL THE PRECEDING PROCEDURE IS COMPLETED.**

A student who finds it necessary to make an adjustment to his program by adding or dropping a course may do so during normal office hours at the Edwardsville Enrollment Office. (No changes will be made on the first day of the quarter.) A program adjustment must be made to drop or add a course. A student may not drop a course merely by stopping attendance. Failure to officially drop a course may result in academic penalty.

Withdrawal from School

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the Registration Calendar in this bulletin for the specific dates concerning withdrawal and refunding of fees.

A student who registers and then finds that he cannot attend school must also officially withdraw from school. He may do this by asking the Student Affairs Division to initiate official withdrawal action for him. This must be done by the end of the first two weeks if he expects to get a refund.

Cancellation of Registration

A registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Director of Student Affairs.

Personal Data Changes

Changes in personal data should be reported promptly. Types of change and method of reporting are:

1. ADDRESS CHANGES. Should be reported immediately either at the time of registration or at the Registrar's Office.
2. NAME CHANGES. Should be made at the Registrar's Office. Verification is required.
3. MARITAL STATUS CHANGES. Should be made at the Registrar's Office.
4. LEGAL RESIDENCE CHANGES (whether an Illinois or out-of-state resident.) Must be requested by completion of the *Application to be Classified an Illinois Resident* form in the Registrar's Office. Before the change is made the student must have met the regulations governing residency status as established by the Board of Trustees.

Hospitalization

Health and hospitalization insurance is offered to all students. Cost of the insurance is \$9.00 per quarter for single and \$28.20 per quarter for family plan. This insurance is available at the time of registration.

2 / Schedule of Classes

Except for the Guaranteed Center Schedules, the University reserves the right to cancel, combine, divide, or limit enrollment in any class or classes; to change the date, time, or place of meeting; to make any other revisions in these course offerings which may become desirable or necessary; and to do so without notice and without incurring obligation.

Explanation of the Schedule

Courses are listed numerically within each subject-matter area. The entry for each course is arranged as follows:

First Line: The course's identification number is followed by the number of quarter hours of credit and the descriptive title. The prerequisites, if any, appear in brackets after the title or on the line immediately below the title.

Section-Number Lines: The first column lists the section numbers. Those sections offered at Edwardsville always begin with 0; those sections offered at Alton always begin with 2; those sections offered at East St. Louis always begin with 4. Following each section number is the time the class begins, between 8:00 A.M. and 4:20 P.M. for daytime classes. An ending time is listed only if the class period is longer than 50 minutes. The section number of each evening class has the letter E prefixed. A + indicates a section which is part of the Guaranteed Center Schedule and is not subject to cancellation. The days when the class meets, the place where it meets, and the instructor's last name complete the entry.

The course numbering system is as follows:

000-099 Courses not properly falling in the following categories

100-199 For freshmen

200-299 For sophomores

300-399 For juniors and seniors

400-499 For seniors and graduate students

500-600 For graduate students only

Students registering for courses listed as TBA (to be arranged) should consult the instructor indicated, or the faculty office if no instructor is listed, to determine time and place of meeting.

The following list of building abbreviations will help in the location of classrooms.

ANA	—Annex A—Alton
CB	—Communications Bldg.—Edwardsville
ESL	—East St. Louis Center
Gym	—Gymnasium—Alton
LB	—Lovejoy Memorial Library—Edwardsville
PB	—John Mason Peck General Classroom Building—Edwardsville

SCI —Science Building—Alton
SL —Science Laboratory Building—Edwardsville
UC —University Center—Edwardsville
Wagner —Wagner Building—Edwardsville
Pract Ctr—Practicum Center—Edwardsville

Final Examinations

For late afternoon, evening, and Saturday classes, final examinations are given during regular class sessions.

For More Information

For additional information concerning admission, fees, etc., address

Director of Admissions	or telephone
Southern Illinois University	692-2720
Edwardsville, Illinois 62025	Edwardsville

To obtain a complete schedule of classes offered on the Edwardsville Campus (including the Alton and East St. Louis Centers) for fall, 1969, address

Central Publications	or telephone
Southern Illinois University	692-3650
Edwardsville, Illinois 62025	Edwardsville

110a-4	The Earth and Its Environment	007	6:00-8:20	T Th	SL 1215	Marlow
201a-4	Man's Biological Inheritance [High school chemistry] Student enrolls in one lecture and one lab. Lectures will be given by CC-TV. Specific room assignment will be made by the Enrollment Center at the time of registration.	Lect E	6:30-8:15 6:30	T Th	TBA TBA	
		005	4:30-6:20	M	SL 2211	
		010	4:30-6:30	M	TBA	
		015	4:30-6:20	T	SL 2211	
		020	4:30-6:20	T	TBA	
		025	4:30-6:20	W	SL 2211	
		030	4:30-6:20	W	TBA	
		035	4:30-6:20	Th	SL 2211	
		040	4:30-6:20	Th	TBA	
		045	4:30-6:20	F	SL 2211	
		050	4:30-6:20	F	TBA	
		051	8:30-10:20	S	SL 2211	
		052	11:30-1:20	S	SL 2211	
		053	1:30-3:20	S	SL 2211	
		056	8:30-10:20	S	TBA	
		057	11:30-1:20	S	TBA	
		058	1:30-3:20	S	TBA	
		060	6:30-8:20	M	SL 2211	
		061	8:25-10:15	T	SL 2211	
		062	6:30-8:20	W	SL 2211	
		063	7:30-9:20	Th	SL 2211	
		064	7:30-9:20	Th	TBA	
312-3	Conservation of Natural Resources	007	8:30-9:45	M W	PB 1410	
330-3	Weather	003	6:30-8:20	M W	PB 0306	
331-3	Climate	003	6:30-8:20	T Th	PB 0306	Baker
		004	6:30-8:20	M W	SL 1215	Thompson

MAN'S SOCIAL INHERITANCE AND SOCIAL RESPONSIBILITIES (GSB)

101b-4	Survey of Western Tradition	036	6:30-8:20	T Th	SL 3114	Pearson
		202	6:30-8:20	M W	ANA 101	
103a-4	Sociology-Economics	009	4:30-6:20	M W	PB 2306	Henslin
		010	6:30-8:20	T Th	PB 0312	
		011	8:30-10:20	M W	PB 0312	
		202	8:30-10:20	T Th	ANA 108	

103b-4	Sociology-Economics	003 6:30-8:20	T Th	PB 3305
		201 6:30-8:20	T Th	ANA 101
		401 6:30-8:20	M W	ESL B
201c-4	The Individual and His Cultural Environment	401 6:30-8:20	M W	ESL D
203a-4	American Politics in the World Environment	005 6:30-8:20	T Th	PB 1311
300a-3	History of the United States	007 6:30-7:45	M W	Feeney
		008 6:30-7:45	T Th	Oldani
300b-3	History of the United States	004 6:30-7:45	T Th	Weiss
331-3	The American Educational Systems	009 5:30-8:20	Th	Barnhart
		010 9:30-12:20	S	PB 3302
		201 5:30-8:20	T	PB 3302
		401 5:30-8:20	W	SCI 003
341-3	Marriage	002 5:30-8:20	M	ESL C
				Hildebrand
				Biggs
MAN'S INSIGHTS AND APPRECIATIONS (GSC)				
151-3	Introduction to Poetry [GSD 101b]	013 8:30-9:45	T Th	PB 3422
156-5	Introduction to Music History-Literature	201 6:00-8:20	T Th	Kresteff
252-4	Logic [Completion first-level GSC]	021 8:30-10:20	M W	PB 0304
253-4	Literary Masterpieces of Antiquity [151]	010 6:30-8:20	M W	PB 1311
		201 8:30-10:20	M W	ANA 101
254-4	Philosophical Masterpieces [Completion first-level GSC]	009 6:30-8:20	M W	PB 0413
		201 6:30-8:20	T Th	ANA 110
315-3	Studies in Biography [253 or 254]	001 6:30-7:45	M W	Steinman
335-3	Studies in Short Fiction [253 or 254]	002 6:30-7:45	M W	PB 2411
				PB 1308

ORGANIZATION AND COMMUNICATION OF IDEAS (GSD)

101a-3	English Composition	058 4:30-5:45	T Th	PB 3409
		059 6:30-7:45	T Th	PB 3409
		060 8:30-9:45	T Th	PB 3409
		204 6:30-7:45	M W	ANA 110
		205 6:30-7:45	T Th	ANA 108
		206 8:30-9:45	M W	ANA 110
		207 8:30-9:45	T Th	ANA 110
		403 6:30-7:45	T Th	ESL B
		404 8:30-9:45	M W	ESL A
		405 8:30-9:45	T Th	ESL A

103-3	Oral Communication of Ideas	018 201	6:30-7:45 6:30-7:45	T Th T Th	PB 1309 ANA 100	
		022 023 033 402	6:30-7:45 8:30-9:45 4:30-5:45 6:30-7:45	M W M W T Th M W	PB 2406 PB 0302 PB 0302 ESL A	Salden Salden Birdman

112a-4 Introduction to Mathematics [One year high school algebra, satisfactory ACT score]

114a-5 College Algebra [One and one-half years algebra, one year plane geometry]

114c-4 Trigonometry [GSD 114a]

114d-4 Statistics [GSD 114a]

123a-3 Elementary French [No previous training, concurrent enrollment in Fr 123a]

126a-3 Elementary German [No previous training, concurrent enrollment in Ger 126a]

140a-3 Elementary Spanish [No previous training, concurrent enrollment in Span 140a]

HEALTH AND PHYSICAL DEVELOPMENT (GSE)

104n-1	Cross Country Meets first eight weeks only.	001	4:30	MT Th	PB N Patio	Luedke
201-3	Healthful Living	005	5:30-8:20	W	SL 1105	Brick

ACCOUNTING (ACCT)

230-4 Accounting Principles [Sophomore standing]

331-4 Principles of Income Taxation [231]

341-4 Cost Accounting Principles [231]

533-4 Managerial Accounting [530]

ART (ART)

050-3	Avocational Painting	001	6:30-10:00	T Th	Wagner 198	
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051-3	Avocational Ceramics	001	6:30-10:00	T Th	Wagner 192	
300a-4	Art Education [Junior standing]	003	6:30-9:20	M W	SL 0209	Buddemeyer
349a-3	Renaissance and Baroque Art	001	4:30-5:45	T Th	SL 0226	Jacobson
358c-4	Prints [358b]	001	6:30-10:20	T Th	SL 0210	Smith
410-4	Research in Prints [358-8]	001	6:30-10:20	T Th	SL 0210	Smith
441-4	Studio in Drawing [202a,b,c]	001	4:30-6:20	TWThF	SL 0217	Davis
511-4	Graduate Printmaking	001	6:30-10:20	TW	SL 0210	Smith
566-4	Research in Art Education	001	TBA			
571-4	Readings in Art History	001	TBA			Hilberry
599-5 to 9	Thesis	001	TBA			
BIOLOGY (BIOL)						
504b-3	Instructional Innovation in Secondary School Biology	001	6:30-9:20	T Th	SL 3210	
590a-1	Graduate Biology Seminar	001	4:30	W	SL 3114	R. Parker
591-1 to 4	Readings in Biology [Consent of faculty chairman]	001	TBA			
593-1 to 4	Special Problems in Biology [Consent of faculty chairman]	001	TBA			
599-2 to 9	Research and Thesis [Consent of faculty chairman]	001	TBA			
BUSINESS ADMINISTRATION (B A)						
540-4	Concepts of Managerial Performance [MBA students only]	001	8:30-12:20	S	PB 3315	
543-4	The Administrator [540]	001	6:30-10:20	Th	PB 3303	
545-4	The Social Framework of Business [541]	001	6:30-10:20	W	PB 3316	
BUSINESS EDUCATION (BS ED)						
324a-4	Advanced Shorthand and Transcription	002	6:30-8:20	M W	PB 3417	
324b-4	Advanced Shorthand and Transcription	001	8:30-10:20	T Th	PB 3417	
327-4	Office Theories and Procedures [201c or equivalent]	001	6:30-8:20	T Th	PB 2406	

BUSINESS EDUCATION (BS ED)						15
414a-3	Organization and Administration of Cooperative Vocational Business Education Program	001	5:30-8:20	T	PB 3302	
417-4	Applications and Fundamentals of Data Processing in Business Education	001	8:30-10:20	T Th	CB 0194	
426-4	Office Management	001	8:30-10:20	M W	PB 1306	
503-4	Tests and Measurements in Business Education	001	6:30-8:20	T Th	PB 3315	
530-4	Research Seminar in Business Education	001	6:30-8:20	M W	PB 3422	
590-2 to 5	Readings in Business Education	001	TBA			
591-2 to 5	Individual Research in Business Education	001	TBA			
599-1 to 9	Thesis	001	TBA			
CHEMISTRY (CHEM)						
341a-3	Organic Chemistry [111c]	001	5:30-6:45	M W	SL 2224	
345a,b,c-2	Organic Chemistry Laboratory	005	5:30-8:20	T Th	SL 2216	
375-1	Chemistry Seminar [Senior standing]	001	5:30	M	SL 2231	
433-3	Intermediate Quantitative Analysis [432a or b, 461c]	001	5:30-6:45	T Th	SL 2224	
490-2	Chemical Literature [235, 305b or 341c, reading knowledge of German or consent of chairman]	001	4:30	M W	SL 2224	
496-2 to 6	Chemical Problems	001	TBA			
562-3	Atomic and Molecular Structure [561]	001	7:00-8:15	M W	SL 2224	
575-1	Graduate Seminar	001	5:30	W	SL 2231	
597-3 to 5	Research and Thesis	001	TBA			
COUNSELOR EDUCATION (C ED)						
305-4	Educational Psychology [By permit only] Four additional sessions TBA.	004	5:30-8:20	W	LB 0042	Ederle
420-4	Educational Statistics Four additional sessions TBA for both sections.	001	5:30-8:20	M	PB 2304	Rochester
		002	5:30-8:20	W	PB 2304	Rochester
422-4	Educational Measurements I Four additional sessions TBA.	001	5:30-8:20	Th	PB 3313	King

426-4	Individual Inventory Four additional sessions TBA.	001	5:30-8:20	T	Pract Ctr	
501-4	Special Research Problems	001	TBA			
510-4	College Student Personnel Services	001	5:30-8:20	M	Pract Ctr	Moore
511-4	Educational Implications of Learning Theories	001	5:30-8:20	Th	PB 1402	
515-4	Psychological Aspects of Education	001	5:30-8:20	T	PB 3313	
522-4	Educational Measurements II	001	5:30-8:20	M	PB 3313	King
525-4	School Behavior Problems and Their Prevention	201	9:00-12:00	S	ANA 104	Meredith
526-4	Advanced Guidance of the Individual: Elementary	001	5:30-8:20	T	PB 2306	Mermis
535-4	Introduction to Individual Measurement	001	5:30-8:20	Th	Pract Ctr	
537-4	Counseling Theory and Practice I	001	5:30-8:20	W	PB 3313	
		002	5:30-8:20	Th	PB 2306	
538-4	Counseling Theory and Practice II	001	5:30-8:20	T	LB 0042	Soper
541-4	Occupational Information and Guidance	001	5:30-8:20	T	PB 1410	Van Horn
542-4	Basic Principles of Guidance	001	5:30-8:20	T	LB 0044	King
543-4	Guidance Through Groups	001	5:30-8:20	T	Pract Ctr	Davis
		002	5:30-8:20	W	Pract Ctr	McBride
		003	5:30-8:20	Th	Pract Ctr	Mermis
545b-4	Seminar in Guidance: Learning and Communication	001	5:30-8:20	W	PB 2412	Mermis
545j-4	Seminar in Guidance: Organization and Administration	001	5:30-8:20	W	PB 3102	Davis
562a-4	Child Development in Education	001	5:30-8:20	Th	PB 1410	
562b-4	Adolescent Development in Education	001	5:30-8:20	M	PB 0314	Ederle
575c-4	Practicum in Secondary Guidance	001	TBA		Pract Ctr	Moore
		002	TBA		Pract Ctr	
		003	TBA		Pract Ctr	Soper

ECONOMICS (ECON)

201-4	Microeconomics [Sophomore standing]	002	8:30-10:20	M W	PB 2411	
200-4	The Monetary System and Economic Policy [201]	003	6:30-8:20	M W	PB 3315	

441-4	Intermediate Macro Theory [200]	001	6:30-8:20	M W	PB 3409
450a-3	History of Economic Thought [200, 201 or GSB 211a, 210]	001	4:30-6:20	T Th	PB 3422
465-4	Mathematical Economics I [440]	001	8:30-10:20	M W	PB 3422
505-4	Theory of the Firm [504]	001	6:30-10:20	M	PB 3316
541-4	National Income Theory [441 or consent of instructor] Saturday additional hours TBA.	001	6:30-9:20	M	PB 3314
542-4	Price Theory [440 or consent of instructor] Saturday additional hours TBA.	001	6:30-9:20	T	PB 3314
561-4	Advanced Topics in Economic History [Consent of instructor] Saturday additional hours TBA.	001	6:30-9:20	W	PB 3314
599-1 to 9	Thesis [Consent of instructor]	001	TBA		
EDUCATION ADMINISTRATION (ED AD)					
355-4	Philosophy of Education [C Ed 305] Four extra sessions TBA.	006	5:30-8:20	M	PB 0411
		007	9:00-11:40	S	PB 0411
420-4	Legal Basis of American Education	001	5:30-8:20	M	PB 0309
434-4	Administrator's Workshop	001	5:30-8:20	Th	PB 2413
456-4	School Supervision	001	5:30-8:20	M	PB 0406
		002	9:00-11:40	S	PB 0314
480-4	Backgrounds of Urban Education Four extra sessions TBA.	001	5:30-8:20	Th	PB 1307
500-4	Research Methods	001	5:30-8:20	M	PB 0051
		002	5:30-8:20	T	PB 0051
		003	5:30-8:20	W	PB 0051
		004	5:30-8:20	Th	PB 0051
		005	5:30-8:20	F	PB 0051
		006	9:00-11:40	S	PB 0051
501-4	Seminar in Educational Administration [524]	001	5:30-8:20	W	PB 3305
506-4	Seminar: Curriculum in Relation to American Culture	001	5:30-8:20	T	SL 2231
511a-4	Internship Practicum [Consent of instructor and faculty chairman]	001	TBA		
520-4	Illinois School Law	001	5:30-8:20	T	PB 0314
					Wilkins

524-4	School Administration	001	5:30-8:20	W	PB 0314	Krchniak
534-4	School Finance	001	5:30-8:20	W	PB 0406	Wilkins
551-4	Community Junior College Curriculum	001	5:30-8:20	M	PB 0408	Boss
554-4	Contrasting Philosophies of Education	001	5:30-8:20	W	PB 2413	Villemain
		002	9:00-11:40	S	PB 2413	Hofmann
560-4	Curriculum	001	5:30-8:20	T	PB 2415	Smith
		002	9:00-11:40	S	PB 0408	Smith
563-4	Workshop in School Public Relations	001	5:30-8:20	T	SL 1210	Andree
565-4	The Community Junior College	001	5:30-8:20	Th	SL 1210	Goodwin
575a-4	Individual Research (Curriculum) [Consent of instructor and faculty chairman]	001	TBA			
575b-4	Individual Research (Supervision) [Consent of instructor and faculty chairman]	001	TBA			
575c-4	Individual Research (Buildings) [Consent of instructor and faculty chairman]	001	TBA			
575d-4	Individual Research (Finance) [Consent of instructor and faculty chairman]	001	TBA			
575e-4	Individual Research (School Law) [Consent of instructor and faculty chairman]	001	TBA			
575f-4	Individual Research (Comparative Education) [Consent of instructor and faculty chairman]	001	TBA			
575g-4	Individual Research (History of Education) [Consent of instructor and faculty chairman]	001	TBA			
575h-4	Individual Research (Philosophy of Education) [Consent of instructor and faculty chairman]	001	TBA			
575j-4	Individual Research (Administration) [Consent of instructor and faculty chairman]	001	TBA			
575k-4	Individual Research (Elementary Administration) [Consent of instructor and faculty chairman]	001	TBA			
596-5 to 9	Independent Investigation [Consent of instructor and faculty chairman]	001	TBA			
597-1 to 3	Thesis [Consent of instructor and faculty	001	TBA			

314-4	Elementary School Methods [Ed Ad 355, consent undergraduate teacher education advisement office] Not open to continuing day students; equivalent laboratory time must be arranged. Four extra sessions TBA.	003	5:30-8:20	W	PB 0309	Carpenter
337-4	Reading in the Elementary Schools [314, C Ed 305, Ed Ad 355]	003	4:30-6:20	T Th	PB 0406	Starr
413-4	Children's Literature [C Ed 305] Four extra sessions TBA.	001	5:30-8:20	Th	LB 0042	Darnell
415-4	Improvement of Instruction in Arithmetic in the Elementary School [Math 310]	002	5:30-8:20	W	PB 1414	Swerdlin
442-4	Science for the Elementary Teacher [314]	001	5:30-8:20	Th	PB 0411	Bliss
480-4	Backgrounds of Urban Education	001	5:30-8:20	Th	PB 1307	Burnett
505-4	Improvement of Reading Instruction	001 002	5:30-8:20 5:30-8:20	T W	PB 0304 PB 0408	Richardson Turner
507-2 to 4	Readings in Reading [505, consent of instructor]	001	TBA			
509-4 to 8	Practicum in Reading [521a, consent of instructor]	001	TBA			
513-4	Materials and Methods for the Assessment of the Disabled Reader [505]	001	5:30-8:20	W	PB 0403	Richardson
518-4	Supervision of Student Teachers	001	5:30-8:20	M	PB 0304	Wehling
521a-4	Diagnosis and Correction of Reading Disabilities [505, consent of instructor] Student enrolls for lecture and one clinic.	Lect Clinic 1 Clinic 2 Clinic 3	5:30-7:20 8:00-9:30 9:30-11:00 11:00-12:30	T S S S	PB 0403 PB 0405 PB 0405 PB 0405	Turner
521b-4	Diagnosis and Correction of Reading Disabilities [521a, consent of instructor] Student enrolls for lecture and one clinic.	Lect Clinic 1 Clinic 2 Clinic 3	5:30-7:20 8:00-9:30 9:30-11:00 11:00-12:30	Th S S S	PB 0403 PB 0405 PB 0405 PB 0405	Bear
542-4	Language Arts in the Elementary School	001	5:30-8:20	T	PB 2412	Darnell
543-4	Teaching the Social Studies in the Elementary School	001	5:30-8:20	T	PB 1307	Carpenter
553-4	Practicum in Urban Education	001	TBA			Burnett, Wheadon

557-4	The Elementary Principalship [524, consent of instructor]	001	5:30-8:20	Th	PB 3316	Wheat
561-4	The Elementary School Curriculum	001	9:00-11:40	S	PB 1306	Comer
567a-4	Teaching Competencies and their Application	001	TBA			Harmin
		002	5:30-8:20	M	PB 1312	Wheadon
575a-4	Individual Research (Curriculum) [Consent of instructor and faculty chairman]	001	TBA			
575b-4	Individual Research (Supervision) [Consent of instructor and faculty chairman]	001	TBA			
575c-4	Individual Research (Language Arts) [Consent of instructor and faculty chairman]	001	TBA			
575d-4	Individual Research (Science) [Consent of instructor and faculty chairman]	001	TBA			
575e-4	Individual Research (Reading) [Consent of instructor and faculty chairman]	001	TBA			
575f-4	Individual Research (Social Studies) [Consent of instructor and faculty chairman]	001	TBA			
575g-4	Individual Research (Elementary Education) [Consent of instructor and faculty chairman]	001	TBA			
575h-4	Individual Research (Arithmetic) [Consent of instructor and faculty chairman]	001	TBA			
575j-4	Individual Research (Kindergarten-Primary) [Consent of instructor and faculty chairman]	001	TBA			
575k-4	Individual Research (Elementary Administration) [Consent of instructor and faculty chairman]	001	TBA			
596-5 to 9	Independent Investigation [Consent of instructor and faculty chairman]	001	TBA			
597-1 to 3	Thesis [Consent of instructor and faculty chairman]	001	TBA			
EDUCATION SECONDARY (ED S)						
315-4	High School Methods [Ed Ad 355, consent of undergraduate teacher education advisement office] Student must arrange equivalent laboratory time.	004	7:30-10:20	Th	PB 0403	Smith

EDUCATION SECONDARY (ED S)							21
407-4	The Junior High School Four extra sessions TBA.	001	5:30-8:20	T	PB 2414	Hileman	
480-4	Backgrounds of Urban Education Four extra sessions TBA.	001	5:30-8:20	Th	PB 1307	Burnett	
488-4	Teaching Social Studies in Secondary Schools Four extra sessions TBA.	001	5:30-8:20	W	PB 1313	Tom	
505-4	Improvement of Reading Instruction	001	5:30-8:20	T	PB 0304	Richardson	
507-4	Readings in Reading	002	5:30-8:20	W	PB 0408	Turner	
508-4	Seminar: Trends in Selected Areas in Secondary Schools	001	TBA				
509-4	Practicum in Reading	001	5:30-8:20	W	PB 1309	Schnabel	
513-4	Materials and Methods for the Assessment of the Disabled Reader [Consent of instructor]	001	TBA				
518-4	Supervision of Student Teachers	001	5:30-8:20	W	PB 0403	Richardson	
521a-4	Diagnosis and Correction of Reading Disabilities [Consent of instructor] Student enrolls for lecture and one clinic	Lect Clinic 1 Clinic 2 Clinic 3	5:30-7:20 8:00-9:30 9:30-11:00 11:00-12:30	M T S S S	PB 0304 PB 0403 PB 0405 PB 0405 PB 0405	Wehling Turner	
521b-4	Diagnosis and Correction of Reading Disabilities [521a, consent of instructor] Student enrolls for lecture and one clinic	Lect Clinic 1 Clinic 2 Clinic 3	5:30-7:20 8:00-9:30 9:30-11:00 11:00-12:30	Th S S S	PB 0403 PB 0405 PB 0405 PB 0405	Bear	
553-4	Practicum in Urban Education	001	TBA			Burnett, Wheadon	
562-4	The High School Curriculum	001	5:30-8:20	W	PB 1312	Smyers	
564-4	High School Principalship [524, consent of instructor]	001	5:30-8:20	Th	PB 2415	Andree	
567a-4	Teaching Competencies and Their Application [Consent of instructor or faculty chairman]	001	TBA				
575a-4	Individual Research (Curriculum) [Consent of instructor or faculty chairman]	002	5:30-8:20	M	PB 1312	Harmin Wheadon	
575b-4	Individual Research (Supervision) [Consent of instructor or faculty chairman]	001	TBA				

575c-4	Individual Research (Language Arts) [Consent of instructor or faculty chairman]	001	TBA			
575d-4	Individual Research (Science) [Consent of instructor or faculty chairman]	001	TBA			
575e-4	Individual Research (Reading) [Consent of instructor or faculty chairman]	001	TBA			
575f-4	Individual Research (Social Studies) [Consent of instructor or faculty chairman]	001	TBA			
575g-4	Individual Research (Secondary Education) [Consent of instructor or faculty chairman]	001	TBA			
575h-4	Individual Research (Higher Education) [Consent of instructor or faculty chairman]	001	TBA			
575j-4	Individual Research (Junior College) [Consent of instructor or faculty chairman]	001	TBA			
596-5 to 9	Independent Investigation [Consent of instructor and faculty chairman]	001	TBA			
597-1 to 3	Thesis [Consent of instructor and faculty chairman]	001	TBA			
ENGINEERING (ENGR)						
101a-3	Engineering Graphics	003	6:30-9:20	M W	SL 1216	Bishop
200a-3	Circuit Analysis [Math 150a or concurrent enrollment]	002	5:00-6:20	T Th	SL 3225	McKay
201a-1	Circuit Analysis Laboratory	003	6:30-9:20	T	SL 1212	McKay
363b-3	Surveying [Math 114b]	004	6:30-9:20	Th	SL 1212	Hord
395-2 to 8	Readings in Engineering [Junior or senior standing]	001	9:30-2:20	S	SL 3225	
465-4	Automatic Control Theory	001	TBA			
472-3	Digital Computers in Research [Math 225]	001	5:00-6:50	M W	SL 1210	McKay
590-2 to 4	Readings in Engineering Mathematics [Consent of	001	8:30-9:45	T Th	CB 0186	Wallace

300-4	Principles of English Grammar [Completion of second-level GSC]	002	6:30-8:20	T Th	PB 1308	Van Syoc
302a-4	Survey of English Literature: Beginnings to 1550 [Completion of second-level GSC]	002	8:30-10:20	M W	PB 0303	Cobb
309a-4	Survey of American Literature to 1860 [Completion of second-level GSC]	002	6:30-8:20	T Th	PB 1313	
309b-4	Survey of American Literature Since 1860 [Completion of second-level GSC]	002	8:30-10:20	M W	PB 0309	Austin
391-3	Usage in Spoken and Written English [Completion of second-level GSC]	003	8:30-9:45	T Th	PB 2411	Steinman
392-3	Professional Writing I [Completion of second-level GSC]	001	9:00-11:45	S	PB 0302	Hobbie
404a-4	Middle English Literature Excluding Chaucer [Completion of second-level GSC, junior standing]	001	4:30-6:20	M W	PB 0303	Wood
458a-4	American Fiction: Novels to 1914 [Completion of second-level GSC, junior standing]	001	6:30-8:20	M W	PB 2414	Joost
460d-4	English Drama: Modern British [Completion of second-level GSC, junior standing]	001	4:30-6:20	T Th	PB 0303	Going
485-4	Problems in the Teaching of English [Completion of second-level GSC, junior standing]	001	6:30-8:20	T Th	PB 2411	Steinman Frogner
499-2 to 4	Readings in English [Consent of adviser]	001	TBA			
500-4	Materials and Methods of Research in English [Graduate standing, by permit only]	002	8:30-10:20	M W	PB 3317	Hoyenga
501-4	Old English Grammar [Graduate standing, by permit only]	001	6:30-8:20	T Th	PB 3317	Wood
534-4	Studies in Early 19th Century American Writers [Graduate standing, by permit only]	001	4:30-6:20	M W	PB 3316	Austin
560-4	Studies in Renaissance Drama [Graduate standing, by permit only]	001	8:30-10:20	T Th	PB 3317	Taylor
598-1 to 4	Independent Review of English and American Literature [Consent of adviser, by permit only]	001	TBA			
599-2 to 4	Thesis [Consent of adviser, by permit only]	001	TBA			

FINANCE (FIN)

320-4	Corporation Finance [Acct 230, 231; Econ 200, 201]	001	8:30-10:20	T Th	PB 2403
423-4	Commercial Banking Operations [420]	002	6:30-8:20	T Th	PB 3314
520-4	Finance [MBA students only]	001	6:30-10:20	T	PB 3316

FOREIGN LANGUAGES (F L)

399-3 to 9	Readings [201, consent of chairman]	001	TBA		
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FRENCH (FR)

123a-1	French Conversation [Concurrent enrollment in GSD 123a]	004	7:55-8:20	T Th	PB 2409
499-2 to 5	Readings in French [201, one quarter 220, consent of chairman]	001	TBA		
545-3	Applied Linguistics and Remedial Phonetics [Graduate standing]	001	6:30-7:45	T Th	TBA

GERMAN (GER)

126a-1	German Conversation [Concurrent enrollment in GSD 126a]	004	6:55-7:20	M W	PB 2409
499-2 to 5	Readings in German [201, one quarter 220, consent of chairman]	001	TBA		
514-3	Seminar in Folklore [Graduate standing]	001	5:05-6:20	T Th	PB 0309

ITALIAN (ITAL)

499-3	Readings in Italian [201, one quarter 220, consent of chairman]	001	4:30-5:45	M W	PB 2410
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RUSSIAN (RUSS)

499-2 to 5	Readings in Russian [201, one quarter 220, consent of chairman]	001	TBA		
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SPANISH (SPAN)

140a-1	Spanish Conversation [Concurrent enrollment in GSD 140a]	004	7:55-8:20	M W	PB 2410
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499-2 to 5 Readings in Spanish [201, one quarter 220, consent of chairman]

GENERAL BUSINESS ADMINISTRATION (GBA)

140-4 Introduction to Business

006

6:30-8:20

M

PB 1402

6:30-7:20

W

PB 1402

007

7:30-8:20

W

PB 3302

6:30-8:20

M

PB 1402

6:30-7:20

W

PB 1402

008

7:30-8:20

W

PB 1316

6:30-8:20

M

PB 1402

7:30-8:20

W

PB 1402

009

6:30-7:20

W

PB 3302

6:30-8:20

M

PB 1402

6:30-7:20

W

PB 1316

002

7:30-8:20

W

PB 1402

342-4 Contracts—Agency Law

T Th

PB 2414

GEOGRAPHY (GEOG)

410a-4 Quantitative Methods in Geography (Same as Govt 410a and Soc 410a)

001

6:30-8:20

T Th

PB 0406

Guffy Crowther

461b-3 Regional Geography of Anglo-America

001

5:30-8:20

M

PB 1412

Collier

501-4 Geographic Techniques II

001

5:30-8:20

W

Tract 14B

Koepke

520-4 Seminar in Physical Geography

001

8:30-12:30

S

SL 1215

Miller

521-4 Seminar in Economic Geography

001

5:30-8:20

W

PB 1412

Collier

530-2 to 4 Independent Studies in Geography

001

5:30-8:20

W

PB 1412

Collier

570-4 Philosophy, Theory, and Practice of Planning

001

5:30-8:20

M

Tract 14B

Roth

573-4 Urban Renewal

001

5:30-7:20

T Th

Tract 14B

Lossau

599-2 to 8 Thesis

001

TBA

Kazeck

GOVERNMENT (GOVT)

410a-4 Quantitative Methods in Political Science (Same as Geog 410a and Soc 410a)

001

6:30-8:20

T Th

PB 0406

Guffy Crowther

499-4	Scope and Method of Political Science [20 hours of upper division work in government]	001	9:30-1:20	S	PB 1308	
521-2 to 5	Readings in Government [Consent of faculty chairman]	001	TBA			
529-4	Seminar in Public Administration	001	5:30-9:20	W	PB 1304	McHargue
599-2 to 5	Thesis [Consent of faculty chairman]	001	TBA			
HEALTH EDUCATION (H ED)						
355-4	Introduction to Public Health	001	5:30-9:20	Th	PB 2412	Grist
HISTORY (HIST)						
102-4	Survey of Asian Civilization	002	6:30-8:20	M W	PB 1307	
332a-3	Medieval History	001	6:30-7:45	T Th	PB 0309	Wurtz
401a-4	History of the South	001	6:30-8:20	T Th	PB 0408	Nordhauser
410-2 to 5	Special Readings in History [Consent of faculty chairman]	001	TBA			
420-4	The French Revolution	001	6:30-8:20	T Th	PB 0307	Gallaher
430a-3	Late Modern Europe: 1815-1880	001	8:30-9:45	T Th	PB 0307	
452-3	Historical Research and Thesis Writing	001	9:00-11:40	S	PB 2406	Santoni
		002	8:30-9:45	M W	PB 2406	Rosenthal
500-4	History Seminar Additional hours TBA.	001	5:00	W	PB 2406	Riddleberger
510-2 to 5	Readings in History [Consent of faculty chairman]	001	TBA			
575a-3	Studies in Latin American History	001	5:00-6:15	T Th	PB 2406	Millett
599-1 to 9	Thesis [Consent of faculty chairman]	001	TBA			
HUMANITIES (HUM)						
301-3 to 4	Humanities Honors [By permit only] The Search for Authenticity in the Short Story and Poetry of Spanish America (20th Century).	002	6:30-7:45	T Th	TBA	Osiek

308-4	School Library Technical Processes Lab hours TBA.	001	5:30-8:20	Th	PB 1302	Holzberlein
403-4	School Library Functions and Management Lab hours TBA.	001	5:30-8:20	W	PB 1302	Holzberlein
406-4	Library Materials for Adolescents Lab hours TBA.	001	5:30-8:20	T	PB 1302	
417-4	Audio-Visual Methods in Education Student enrolls for one lecture section, one quiz section, and one hour per week self- instruction.	Lect B 006 011 017 018 019 023 024	5:30-7:20 5:30 5:30 4:30 7:30 7:30 5:30 6:30	W M T W W W Th Th	PB 0304 PB 0410 PB 0410 PB 0410 PB 0410 PB 0304 PB 0410 PB 0410	Thota
440-2	Photography for Teachers Lab hours TBA.	001	5:30-7:20	T	PB 0411	Gilligan
445-4	Preparation of Teacher-Made Audio-Visual Materials Lab hours TBA for all three sections.	001 002 003	5:30-8:20 5:30-8:20 9:00-11:40	T Th S	PB 0409 PB 0409 PB 0409	Madison
530-4	History of Books and Libraries	001	5:30-8:20	M	PB 1302	Holzberlein
548-4	Supervision and Administration of an Audio-Visual Program	001	5:30-8:20	W	PB 0411	Gilligan
549-4	Visual Learning	001	5:30-8:20	W	PB 0409	
560-4	Seminar in Instructional Materials	001	5:30-8:20	Th	TBA	
MANAGEMENT SCIENCE (M S)						
381-4	Management Systems II [310,380]	003	8:30-10:20	M W	CB 0186	
588-4	Seminar in Management Systems [583, QM 513]	001	6:30-10:20	W	PB 3404	
MARKETING (MKTG)						
371-4	Principles of Marketing Management [QM 211]	001	6:30-8:20	T Th	PB 2405	
471-4	Advertising Policy and Management [470]	002	8:30-10:20	T Th	PB 2415	

MATHEMATICS (MATH)

101-4	Fundamental Mathematics	202	6:30-8:20	M W	SCI 003	
		402	6:30-8:20	T Th	ESL C	
150a-4	Elementary Calculus and Analytic Geometry [GSD 114c]	007	6:30-8:20	M W	PB 0303	Oursler
225-4	Programming for Digital Computers [GSD 114a]	006	6:30-8:20	T Th	CB 0186	Wallace
305a-4	Applied Mathematics for Physical Science [252a, Phys 211c]	002	6:30-8:20	T Th	SL 1225	Wilson
321-4	Elementary Matrix Algebra [150b]	003	6:30-8:20	M W	SL 1225	Poynor
351-4	Multivariable Calculus [252b]	001	8:30-10:20	M W	SL 1225	Kessler
395-2 to 5	Readings in Mathematics [12 hours of 300-400 level math, 4.0 average, consent of instructor]	001	TBA			
410a-4	Statistical Analysis [GSD 114a]	001	4:30-6:20	T Th	SL 1225	Clemans
433-3	Theory of Point Sets [252b, 6 hours in 300-level courses or higher]	001	8:00-9:15	T Th	PB 0303	Bennewitz
446b-3	Structure of Mathematics [Experience in teaching or consent of instructor]	001	6:30-7:45	T Th	PB 0303	Holden
455a-3	Advanced Mathematics for the Physical Sciences [305b or consent of instructor]	001	5:00-6:15	T Th	SL 1224	Kurth
458a-3	Finite Mathematics [252a or consent of instructor]	001	6:30-7:45	T Th	PB 0302	Sturley
472a-3	Computer Science [225, 305a, 321]	001	8:30-9:45	T Th	CB 0186	Wallace
475a-3	Numerical Analysis [252b or 305a, consent of instructor]	001	5:00-6:15	M W	CB 0186	Garder
501a-3	Real Variables	001	4:45-6:00	M W	SL 1224	
520a-3	Modern Algebra [420a, concurrent enrollment in 520b]	001	8:00-9:15	M W	SL 3225	Lazerson
550a-1 to 5	Seminar in Algebra [Consent of instructor]	001	TBA			Poynor
550c-1 to 5	Seminar in Analysis [Consent of instructor]	001	TBA			A. Livingston
555a-3	Complex Variables [452c]	001	6:30-7:45	M W	SL 1224	A. Livingston
576a-3	Advanced Topics in Applied Mathematics	001	6:30-7:45	T Th	SL 1224	Garder

MUSIC (MUS)

002e-1	SIU Community Choral Society	001	7:30-9:20	T	PB 1402	Van Camp
003-1	University Symphony Orchestra [By permit only]	001	8:00-10:00	T	CB 1029	Schieber
205a-3	Theory of Music	001	4:30	MTWTh	CB 0194	Oberlag
307-4	Recreational Music. Additional hour TBA.	001	5:30	M W F	PB 3404	
442b-3	Contrapuntal Forms	001	4:30	M W F	PB 3404	Kresteff
481-2 to 6	Readings in Music Theory [By permit only]	001	TBA			
482-2 to 6	Readings in Music History-Literature [By permit only]	001	TBA			
483-2 to 6	Readings in Music Education [By permit only]	001	TBA			
499-1 to 3	Independent Study [By permit only]	001	TBA			
501-3	Introduction to Graduate Study in Music	001	5:30-8:20	M	CB 0194	Blakely
519a-3	Vocal Pedagogy and Literature	001	4:30	M W F	TBA	Moore
540a-u 2 or 4	Private Applied Music [By permit only]	001	TBA			
553b-3	Seminar in Materials and Techniques – Instrumental	001	5:30-8:20	W	CB 0194	Fjerstad Tarwater
560-2 to 6	Seminar in Music Education	001	5:30-8:20	T	CB 0194	Joseph Tarwater
566-1	Instrumental Ensemble [By permit only]	001	TBA			Fjerstad Schieber
567-1	Choral Ensemble [By permit only]	001	TBA			Van Camp
599-3 to 9	Thesis [By permit only]	001	TBA			

PERSONNEL (PERS)

451-4	Labor Relations Law and Collective Bargaining [GBA 340]	002	8:30-10:20	T Th	PB 2410	
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PHILOSOPHY (PHIL)

301-4	Philosophy of Religion [Sophomore standing]	001	6:30-8:20	T Th	PB 0413	F. Marti
490-4	Special Problems: Kant	001	TBA			F. Marti
495-2 to 12	Independent Readings	001	TBA			
502a-2	Methods of Teaching Philosophy [Graduate standing]	001	TBA			Glossop
546-4	Empiricism [Graduate standing]	001	6:30-8:20	T Th	PB 1304	Keene
565-4	Ethical Theory [Graduate standing]	001	4:30-6:20	T Th	PB 3317	Seligman

PHYSICAL EDUCATION (PE)

350-4	Methods and Materials for Teaching Physical Education Activities in the Elementary School Additional eight hours TBA for Sections 003 and 004.	003 004	5:30-8:20 5:30-8:20	W M	LB 0033 LB 0033	Luedke Moehn
389-4	Affiliation in Physical Education	001	TBA			Herrold
475-4	Individual Research	001	TBA			Herrold
501-4	Curriculum in Physical Education	001	5:30-7:20	T Th	LB 0033	Archangel
502-4	Foundation of Motor Skills	001	6:30-9:50	M	PB 2412	Showers

PHYSICS (PHYS)

211a-4	University Physics [Concurrent enrollment in Math 150a] Student enrolls for both lecture and problem session.	Lect B 009	6:30 7:30	MT Th M Th	SL 1105 SL 1105	
212a-1	University Physics Laboratory [Concurrent enrollment in 211a]	009 010	7:30-8:20 6:30-8:20 6:30-9:20	T W F	SL 1218 SL 1218 SL 1218	
304-4	Thermodynamics and Kinetic Theory [211b]	001	6:00-7:50	M W	SL 0226	
419-4	Introduction to Theoretical Physics [Math 305]	001	6:00-7:50	T Th	SL 0226	
420-2 to 5	Special Projects	001	TBA			
510a-3	Classical Mechanics	001	8:00-9:20	T Th	SL 0226	
531a-3	Quantum Mechanics	001	8:00-9:20	M W	SL 0226	
590-1 to 5	Research in Physics	001	TBA			

461-4	Methods Design and Work Measurement	002	6:30-8:20	T Th	PB 3404
PSYCHOLOGY (PSYC)					
301-4	Child Psychology [GSB 201c]	003	4:30-6:20	T Th	PB 3315
		004	6:30-8:20	M W	PB 0312
303-4	Adolescent Psychology [GSB 201c]	003	6:30-8:20	T Th	PB 1312
305-4	Introduction to Personality Dynamics [GSB 201c]	003	5:30-7:20	T Th	PB 1412
307-4	Social Psychology [GSB 201c]	002	6:30-8:20	M W	PB 1306
420-4	Experimental Analysis of Behavior [GSB 201c] Four Friday sessions, fifth through eighth week.	001	5:30-8:20	M F	SL 2212
431-4	Psychopathology [305] Meets first four Fridays only.	002	5:30-8:20	ThF	PB 0314
432-4	Mental Hygiene [305]	001	8:30-12:20	S	PB 3305
440-4	Theories of Personality [305] Four Friday sessions, fifth through eighth week.	001	5:30-8:20	M F	PB 3302
465-4	Group Dynamics and Individual Behavior [307] Meets first four Fridays only.	002	5:30-8:20	W F	PB 2415
474-4	Psychology of Employee Relations [320] Four Friday sessions, fifth through eighth week.	001	5:30-8:20	M F	PB 2413
490-1 to 4	Independent Projects [Concentration in psychology, consent of chairman]	001	TBA		
501a-4	Proseminar in General Psychology [Admission to graduate program in psychology]	001	5:30-7:20	T Th	PB 3102
520-4	Research Design and Inference I [211b]	001	7:30-9:20	T Th	PB 3102
530-4	Personality Theory and Dynamics [440]	001	5:30-8:20	M	PB 3317
541a-4	Psychodiagnostics I [211b, 421, consent of instructor]	001	5:30-8:20	W	PB 3317
590-4	Readings in Psychology [Consent of chairman]	001	TBA		
591-4	Research in Psychology [Consent of chairman]	001	TBA		

Kuenzli
Starr
Engbretson
McLaughlin
McMahon
Starr
Behring
Russo
Daugherty
Kohfeld, McCall, McLaughlin
Brinkmann
Clodfelder
Taliana

593-2 to 4	Practicum in Psychology [Consent of instructor and chairman]	001	TBA						
593s-2 to 4	Practicum in Psychology: School Psychology [Consent of instructor and chairman]	001	TBA						
599-2 to 4	Thesis [Consent of chairman]	001	TBA						
QUANTITATIVE METHODS (Q M)									
210-4	Introduction to Quantitative Methods [GSD 114a]	005	6:30-8:20	M W				PB 3303	
510-4	Statistical Analysis for Decision Making [MBA students only]	001	6:30-10:20	M				PB 3404	
SCIENCE AND TECHNOLOGY (SC & T)									
415-1	Instructional Innovation for the Physical Sciences	001	9:00-12:00	S				SL 0226	Zurheide
SOCIOLOGY (SOC)									
302-4	Contemporary Social Problems	002	8:30-10:20	M W				PB 1414	Grubb
396-1 to 5	Readings in Sociology [Consent of faculty chairman]	001	TBA						
405-4	Current Sociology	001	6:30-8:20	T Th				PB 1414	Humphreys
410a-4	Quantitative Methods in Sociology (Same as Govt 410a and Geog 410a)	001	6:30-8:20	T Th				PB 0406	Guffy, Crowther
451-4	Social Thought II: The Sociological Movement	001	4:30-6:20	T Th				PB 1414	Reynolds
501-4	Survey of Sociological Theory	001	6:30-8:20	M W				PB 2306	Blain
596-2 to 6	Readings in Sociology [Consent of faculty chairman]	001	TBA						
599-2 to 6	Thesis [Consent of faculty chairman]	001	TBA						
SOCIAL WELFARE (SOC W)									
383-4	Introduction to Interviewing	001	5:30-7:20	M W				PB 0307	Teer
SPECIAL EDUCATION (SP ED)									
410a-4	Problems and Characteristics of the Emotionally Disturbed Child [414] Meets first four Fridays only.	001	5:30-8:20	M F				PB 0403	

SPECIAL EDUCATION (SP ED)						33
	002	5:30-8:20	T F	PB 3303		
410b-4	Problems and Characteristics of the Mentally Retarded Child [414] Section 002 meets first four Fridays only.					
410c-4	001 002	8:30-12:20 5:30-8:20	S ThF	PB 0406 PB 2414		
414-4	002	5:30-8:20	W F	PB 2405		
420b-4	001	5:30-8:20	M F	PB 0412		
428-4	001	5:30-8:20	Th	CB 2012	Taylor	
430-4	001	5:30-8:20	W F	PB 1410		
496-1 to 8	001	TBA				
501-4	001	TBA				
577-4 to 8	001	TBA				
590a-4	001	5:30-8:20	W	SL 3114		
SPEECH (SPCH)						
417-4	001	5:30-8:20	M	CB 0186		
532-2	001	5:30-7:20	W	CB 0186	Stoppe	
SPEECH PATHOLOGY AND AUDIOLOGY (S P & A)						
428-4	001	5:30-8:20	Th	CB 2012	Taylor	
515-1 to 4	001	5:30	W	CB 2012	Lieblich	
522a-4	001	5:30-8:20	T	CB 2012	Carey	

THEATER (THEA)

403-4	Dramatic Theory and Criticism Additional hours TBA.	001	5:30-8:20	T	PB 2413	Archer
519-1 to 4	Theater Practicum Additional hours TBA.	001	5:30	M	CB 2015	Kluth

VOCATIONAL-TECHNICAL INSTITUTE (VTI)

CCS 111-2	Audio-Visual Aids	001	6:30-8:20	Th	SL 3225	
CCS 115-2	Art and Music. Additional three hours TBA.	001	7:30	T	PB 0403	Naylor

TECHNICAL AND ADULT EDUCATION (T & AE)

English Review		001	6:30-8:20	T	PB 0412	
		002	6:30-8:20	Th	PB 0412	
		003	6:30-8:20	W	PB 1315	
		004	8:30-10:20	W	PB 1315	
Reading Improvement		001	4:30-6:20	T	PB 0412	
		002	4:30-6:20	Th	PB 0412	
		003	6:30-8:20	W	PB 0412	
		004	8:30-10:20	W	PB 0412	

Course Descriptions

This section contains descriptions for courses offered in the previous section of this bulletin. Courses are listed numerically within each subject-matter area and in the same order in which they appear in the previous section.

Man's Physical Environment and Biological Inheritance (GSA)

110-8 (4,4) The Earth and Its Environment. A study of the earth, its major domains and its space environment; student investigation of earth substances, processes and utilization of energy. An investigative approach for study of the observational and measurement techniques of the earth scientist. Lecture, laboratory, and individual study. Must be taken in a,b sequence. Prerequisite: one year of high school chemistry.

201-8 (4,4) Man's Biological Inheritance. Basic biological concepts are explored at levels of integration ranging from the molecular to the ecosystem. Topics include structure and function of cells and organisms, genetics, continuity of life, problems of populations, environmental control, evolutionary development, interrelationships between plants and animals. Must be taken in a,b sequence. Prerequisite: high school or college chemistry.

312-3 Conservation of Natural Resources. A study of man's use and misuse of natural environment.

330-3 Weather. A study of weather elements basic to understanding the various atmospheric happenings, with application to agriculture, industry, recreational resources, etc. May take only 330 or 331 for General Studies credit.

331-3 Climate. Description and interpretation of climatic regions and their influence on human activity. May take only 330 or 331 for General Studies credit.

Man's Social Inheritance and Social Responsibilities (GSB)

101-8 (4,4) Survey of Western Tradition. (b) Political, economic and cultural history of Europe from the Early Middle Ages to the end of the Napoleonic Age. (c) History of Europe from Congress of Vienna to the present.

103-8 (4,4) Sociology-Economics. An introduction to the great economists and sociologists and especially to those writers who are regarded as both. (a) A historical development of sociological ideas and introduction to such concepts as social structure, role behavior, and social institutions. (b) A historical development of economic ideas and an introduction to economic concepts, institutions, and problems. Should be taken in a,b sequence.

201-8 (4,4) The Individual and His Cultural Environment. A study of human behavior in the light of cultural and psychological processes. (a) Anthropology: An examination of the biological and cultural origins of mankind; cultural diversity and human behavior; characteristic features of tribal societies, including economy, social organization, language, art, religion, and political organization; place of non-industrialized societies in the modern world. (c) Psychology: Surveys modern psychological approaches to individual behavior; includes basic developmental processes such as learning and motivation plus a study of personality and related adjustment problems. Prerequisite: 101 or 103.

203-8 (4,4) American Politics in the World Environment. (a) The theory, organization, and operation of American government. (b) Analysis and interpretation of human geographic patterns; world population, settlement, economic activities. Meets State Constitution requirements.

300-9 (3,3,3) History of the United States. A general survey of the political, social, and economic development of the United States. (a) 1492 to 1815, (b) 1815 to 1900, (c) 1900 to the present.

331-3 The American Educational Systems. A critical and problematic study of education as a major social enterprise of a free society in its context of international involvements. The formative influences upon the American educational systems, its basic characteristics, difficulties and prospects are explored through the disciplines comprising the intellectual-cultural foundations of education. Designed for all students irrespective of major discipline or professional pursuit.

341-3 Marriage. An examination of marriage in various societies with an emphasis on the origins, changes, and present status of dating, courtship, and marriage in the United States.

Man's Insights and Appreciations (GSC)

151-3 Introduction to Poetry. Introduction to the enjoyment of poetry. Practice in techniques of critical reading and writing. Prerequisite: GSD 101a,b.

155-5 Introduction to Art. Basic introduction to the visual arts, particularly painting, sculpture, and architecture. The primary objective is to cultivate skill and discrimination in seeing and understanding works of art from many periods.

156-5 Introduction to Music History-Literature. An introduction to the elements of music, and to the important composers, periods, styles, and forms of music.

252-4 Logic. Study and practice in the analysis of verbal traps, relations between statements, deductive arguments, and inductive inferences.

253-4 Literary Masterpieces of Antiquity. Reading and discussion of selected literary texts from Classical and Hebraic Antiquity.

254-4 Philosophical Masterpieces. Reading and discussion of selected philosophic masterpieces of western civilization.

335-3 Studies in Short Fiction. The development of the short story as an artistic expression, its techniques, and its versatility, from the early 19th century to the present.

Organization and Communication of Ideas (GSD)

101-6 (3,3) English Composition. Basic rhetorical principles in expository writing. Must be taken in a,b sequence.

103-3 Oral Communication of Ideas. The basic principles and techniques of oral communication as applied to everyday speech activities.

112-9 (4,5) Introduction to Mathematics. A study of logical rules of deduction: the real number system, and mathematical structures. Prerequisite: one year of high school algebra and satisfactory score on A.C.T. An alternative course for 114-9. Must be taken in a,b sequence.

114-9 (5,4) College Algebra, and Trigonometry. A logical study of the algebraic properties of number systems, polynomials, equations, functions, matrices, exponential and logarithmic functions, trigonometric function. (a) principally algebra. (c) principally trigonometry. An alternative course for 112-9. Must be taken in a,c sequence. Prerequisite: one and one-half years high school algebra and one year high school geometry, or equivalent.

114d-4 Statistics. Descriptive statistics, probability distributions, sampling, statistical inference, regression and correlation. An alternative course for 114c. Prerequisite: 114a.

123-9 (3,3,3) Elementary French. Open to students who have had no previous work in French. Must be taken in a,b,c sequence.

126-9 (3,3,3) Elementary German. Open to students who have had no previous work in German. Must be taken in a,b,c sequence.

140-9 (3,3,3) Elementary Spanish. Open to students who have had no previous work in Spanish. Must be taken in a,b,c sequence.

Health and Physical Development (GSE)

104-(1 per activity) Individual and Team Activity (Men). (c) Basketball, (f) Soccer, (g) Speedball, (j) Softball, (n) Cross Country, (t) Touch Football, (u) Wrestling, (x) Handball.

201-3 Healthful Living. Personal and community health. Presents scientific health information as a basis for developing wholesome health attitudes and practices.

Accounting

230-4 Accounting Principles. Study of the basic accounting principles, con-

cepts, conventions, and standards; their application to the analysis and recording of business transactions; and the reporting of the accumulated results. Measurement of income, and matching of expense with revenues through the use of the accrual basis in the accounting system. Prerequisite: sophomore standing.

331-4 Principles of Income Taxation. Study of the Federal Income Tax laws as they affect individuals, partnerships, corporations, estates, and trusts, in determination of the taxable income for computing the tax liability due. Prerequisite: 231.

341-4 Cost Accounting Principles. Comprehensive study of job order and process cost systems, related joint and by-product costing, and estimated cost procedures. Prerequisite: 231.

533-4 Managerial Accounting. Consideration of programs and techniques of internal control and reporting for management, cost concepts and applications, variable costing, cost-volume-profit relationships, budgeting concepts, and complex problems for managerial decision. Prerequisite: 530.

Art

050-3 Avocational Painting. An exploration of painting and drawing media for the interested non-major. Emphasis upon individual development of understanding and appreciation of painting media through direct experience in the practice of painting. May be repeated. Three hours credit applicable to degree except in art and design and teacher education.

051-3 Avocational Ceramics. An exploration of the ceramics arts for the interested non-major. Emphasis upon individual development of understanding and appreciation of pottery media through direct experience in the practice of the craft. May be repeated. Three hours credit applicable to degree except in art and design and teacher education.

300-12 (4,4,4) Art Education. Theory and practice of art activities in the elementary schools. Designed for elementary education students.

349-9 (3,3,3) Renaissance and Baroque Art. Architecture, sculpture, and painting from the waning of the middle ages to the beginnings of modern movements in the 18th century. (a) The Renaissance in northern Europe. (b) The Renaissance in Italy and the south. (c) Mannerism, Baroque, and Rococo art. May be taken independently. Recommended preparation, but not prerequisite: 225.

358-12 (4,4,4) Prints. Introduction to printmaking as a medium. Studio projects in intaglio, relief, and planographic processes. Prerequisite: 202-15.

Biology

504-9 (3,3,3) Instructional Innovation in Secondary School Biology. A laboratory-oriented workshop of group participation in varied approaches to experimentation and problem solving in the biological sciences.

590-3 (1,1,1) Graduate Biology Seminar. Lectures presented by faculty, visiting investigators, and students. Students present one seminar per quarter. Continuous attendance required.

591-1 to 4 Readings in Biology. Supervised readings in specialized areas. No credit toward a secondary concentration in biology. Prerequisite: consent of instructor.

593-1 to 4 Special Problems in Biology. Supervised investigation. Prerequisite: consent of instructor.

Business Administration

540-4 Concepts of Managerial Performance. Emphasizes the role of management in achieving efficient work organizations. Reviews the various approaches to management as a foundation of realistic understanding of the broad range of problems confronting managers. Case problems supplement text materials. Restricted to Master of Business Administration students.

543-4 The Administrator. A focus upon the changing issues faced by managers in their efforts to achieve better management of human resources. The point of view is that of the line manager rather than that of a personnel-staff specialist. The case method facilitates the search for sensitive understanding and operational guidelines; the goal is to develop leadership patterns conducive to a satisfying, as well as an efficient, organizational entity. Prerequisite: 540.

545-4 The Social Framework of Business. Critical examination of the role of business in modern society. Emphasis on the large corporation, the responsibility of its management, the relationship of the corporation to the individual, the professional role of the manager, and the efficient management of the firm's resources. Prerequisite: 541.

Business Education

324a-4 Advanced Shorthand and Transcription I. The development of high-level dictation and transcription skill and knowledge. Prerequisites: 221c or three semesters of other formal instruction in shorthand-transcription and the ability to transcribe on the typewriter new-matter dictation taken at a sustained rate of 80 words per minute.

324b-4 Advanced Shorthand and Transcription II. A continuation of 324a. Prerequisites: 324a or four semesters of other formal instruction in shorthand-transcription and the ability to transcribe on the typewriters new-matter dictation taken at a sustained rate of 90 words per minute.

327-4 Office Theories and Procedures. A study of office efficiency, techniques, filing procedures, financial and legal responsibilities, and other office activities. Opportunities to explore reference sources, to prepare for and participate in interviews, to make self evaluations, and to pursue areas of special interest. Operation of dictating and transcribing equipment. Prerequisite: 201c or equivalent.

414-6 (3,3) Organization and Administration of Cooperative Vocational Business Education Programs. Philosophy and objectives of cooperative vocational programs, methods of selecting students and work stations, placing and supervising students on part-time jobs, preparation of instructional materials, job analyses, conducting related information courses, evaluating workers and work stations, advisory committees, and public relations aspects of cooperative programs.

417-4 Application of Data Processing in Business Education. Acquaints business teachers with data processing applications in high school business classes. Emphasis on vocabulary development, unit record equipment, concepts of programming, and fundamentals of computer applications applicable to high school students. Approximately one-third of course is spent in machine operation. Prerequisite: Management Operating Systems 280.

426-4 Office Management. The principles of management as applied to office problems. Emphasis on the role of the office in business management; office organization; physical facilities and layout of the office; office services, procedures, standards, and controls.

503-4 Tests and Measurements in Business Education. The selection, construction, administration, and interpretation of tests and test scores in business education subjects. Principal emphasis on teacher-made tests, especially of the performance type, with secondary attention to published tests in the field.

590-2 to 5 Readings in Business Education. Supervised readings in selected subjects. Prerequisite: consent of instructor.

591-2 to 5 Individual Research in Business Education. Selection and investigation of a problem; use of relevant sources and techniques; collection, evaluation, and interpretation of data; and the writing of a report on the investigation. Prerequisite: consent of instructor.

Chemistry

341-9 (3,3,3) Organic Chemistry. Three lecture hours per week. Must be taken in a,b,c sequence. Prerequisite: 111c.

345-6 (2,2,2) Organic Chemistry Laboratory. Must be taken in a,b,c sequence. Prerequisite: 305a or concurrent enrollment in 341a.

375-0 to 3 Chemistry Seminar. One lecture per week. Prerequisite: senior standing.

433-3 Intermediate Quantitative Analysis. A study of the analysis of complex materials, with emphasis on separations, functional group analysis, and instrumental applications. Two lecture and three laboratory hours per week. Prerequisites: 432a or b, 461c.

490-2 Chemical Literature. A study description of the various sources of chemical information and the techniques for carrying out literature searches. Two lecture hours per week. Prerequisites: 235, 305b or 341c, reading knowledge of German or consent of instructor.

496-2 to 6 Chemical Problems. Investigation of relatively simple problems under the direction of a staff member. Prerequisites: senior standing, concentration in chemistry with 4.0 average, and consent of chairman.

562-3 Atomic and Molecular Structure. A survey of basic principles in atomic spectroscopy, quantum chemistry, and statistical thermodynamics. Lecture. Prerequisite: 561.

575-1 to 3 Graduate Seminar. Advanced level talks presented and discussed by graduate students. Required for all graduate students.

Counselor Education

305-4 Educational Psychology. Study of the learner and the learning process. Includes study of behavior, discipline, development, the school environment, application of learning theories, and methods of assessment. Prerequisite: GSB 201c.

420-4 Educational Statistics. The statistics needed by teachers for classroom use, the reading of educational literature, and informal educational research. Includes methods of organizing and presenting data, describing group performance, describing individual performance, model distributions, measure of relationship, measures of reliability, and tests of significance. Prerequisite: 305.

422-4 Educational Measurements I. Study of the philosophy and techniques of measurements. Special attention to the construction and use of teacher-made tests. Prerequisite: 305.

426-4 Individual Inventory. Principles and procedures for studying individual pupils and their problems for guidance purposes. Emphasis on interview, observation, ratings, case study, cumulative record, etc.

501-2 to 8 Special Research Problems. For majors in Counselor Education. Formulating, investigating, and reporting on a problem in the area of guidance. Prerequisites: advanced standing, consent of instructor.

510-4 College Student Personnel Services. An overview of the student personnel program in higher education for the beginning graduate student. Various types of organizational structures in higher education. Description and discussion of the functions of college student personnel programs, with emphasis on the organizational relationships of the various functions. Prerequisite: admission to program.

511-4 Educational Implications of Learning Theories. Survey of the major theories of learning. Emphasizes the implications of these theories for classroom practice. Prerequisite: advanced standing.

515-4 Psychological Aspects of Education. Designed to survey the applications of psychology to educational settings. Prerequisite: advanced standing.

522-4 Educational Measurements II. Study of standardized tests and other measuring devices to reveal individual and group characteristics. Emphasizes application and interpretation for counseling, education, and research purposes. Prerequisites: 420, 422.

525-4 School Behavior Problems and Their Prevention. A survey of the approaches to the study of personality-development and socialization of the school child. Methods used in the correction of behavior problems are considered. Prerequisite: consent of instructor.

526-4 Techniques in Individual Guidance. Each student employs psychometric procedures, makes observations, and holds interviews with a pupil, his parents, teachers, and others. Prerequisite: consent of instructor.

535-4 Introduction to Individual Measurement. Survey of theories and practices in the individual assessment of human behavioral characteristics, to develop understanding and appreciation of these concepts for use in the counseling relationship. Prerequisite: 522.

537-4 Counseling Theory and Practice I. Systematic study of the major approaches to counseling. Observation and practice utilized to supplement didactic discussion. Prerequisite: 542.

538-4 Counseling Theory and Practice II. Systematic study of major theories of counseling as applied to school situations. Supervised experience in role-playing or laboratory experience utilizing these approaches. Prerequisite: 537.

541-4 Occupational Information and Guidance. Designed for school counselors, industrial supervisors, and teachers to give an orientation to and experience with occupational information and vocational adjustment. Prerequisite: 542.

542-4 Basic Principles of Guidance. Introductory course on student personnel services. Survey of philosophy, principles, and organization of guidance services. Prerequisite: 305.

543-4 Guidance Through Groups. Study of the methods, techniques, and materials for the organization and utilization of groups for guidance purposes. Prerequisite: 442.

545-8 to 16 Seminar. (a) Problems in guidance. A seminar designed to analyze current problems in guidance. Prerequisite: advanced standing. (b) Learning and Communications. Students examine theory and research related to communication by reviewing literature, designing studies, and conducting research projects. Prerequisite: consent of instructor. (f) Pupil adjustment. Analyses various concepts of adjustment and instruction. Analyses research in classroom learning and implications for the classroom. Included are practice and review, transfer of training, retention and forgetting, and motivation. Prerequisite 511. (j) Organization and administration. Analysis of principles, procedures, and plans necessary for initiating, developing, and appraising a school guidance program. Prerequisite: 537.

562-8 (4,4) Human Development in Education. Theories and research evidence regarding child development and behavior are investigated. These considerations focus upon implications for research and educational practices. (a) Childhood. Prerequisite: advanced standing. (b) Adolescence. Must be taken in a,b sequence.

575c-1 to 12 Practicum in Secondary Guidance. Supervised experience in guidance functions. Includes counseling with secondary school pupils, conducting parent interviews, consulting with teachers, and the collection and dissemination of information. Prerequisite: consent of practicum coordinator.

Economics

201-4 Microeconomics. Principles and characteristics of the market economy. Theory of the business firm, supply, demand, and prices. Analysis of earnings of productive resources, including wages, rent, interest, and profit. Introduction to market structure and public policy. Prerequisite: sophomore standing.

300-4 The Monetary System and Economic Policy. Study of relationships between money, credit, prices, and economic activity. How the banking system creates money; the Federal Reserve System. Introduction to public finance and fiscal policy; the role of public finance in full employment policy. Introduction to international financial relationships. Prerequisite: 200.

441-4 Intermediate Macro Theory. Basic analytical concepts of the modern theory of aggregative income. Prerequisite: 200, 201 or consent of instructor.

450-6 (3,3) History of Economic Thought. The development of economic thought; (a) ancients to 1850; (b) 1850 to present. Must be taken in a,b sequence. Prerequisites: 200, 201.

465-4 Mathematical Economics I. A systematic survey of mathematical economic theory. Conditions of static equilibrium (including stability conditions), dynamic models using difference equations, and linear production models of input-output analysis and activity analysis (linear programming). Prerequisites: 440, consent of instructor.

505-4 Theory of the Firm. Price determination under competitive conditions and under other market structures. Includes demand analysis, business forecasting, returns to factors of production, and evaluation of capital outlays. Prerequisite: 504.

541-4 National Income Theory. Keynesian and post-Keynesian developments in national income theory. Empirical research concerned with characteristics and magnitudes of important national income concepts, such as the consump-

tion function. Recent American policies and problems bearing on national income fluctuations. Prerequisite: 441 or consent of instructor.

542-4 Price Theory. Designed to develop skills in the use of the analytical tools, including the basic mathematical techniques, used in price theory. Prerequisite: 440 or consent of instructor.

Educational Administration

355-4 Philosophy of Education. The philosophical principles of education and the educational theories and agencies involved in the work of the schools. Prerequisite: Counselor Education 305.

420-4 Legal Basis of American Education. Particular emphasis is placed on common law principles.

434-4 Administrator's Workshop. A special program for the consideration of administrative problems pertinent to superintendents, high school principals, and elementary school principals.

456-4 School Supervision. The function of the principal or supervisor in the improvement of instruction. Some activities, methods, and devices for improving the effectiveness of teaching.

480-4 Backgrounds of Urban Education. (Same as Elementary Education 480 and Secondary Education 480.) A study of social, economic, and demographic factors as they impinge upon programs in urban schools, particularly those in the inner city. Prerequisite: consent of instructor.

500-4 Research Methods. Introduction to educational research with practical training in research writing techniques and evaluation in education.

501-4 Seminar in Educational Administration. The interdisciplinary approach to the study of the theory of educational administration. Open to students in approved sixth year and doctoral programs only.

506-4 Seminar: Curriculum in Relation to American Culture. The effect of historical movements on curriculum in our nation at all ages and grade levels continued on a more intensive basis as applied to present-day curricular patterns. Prerequisite: 460 or consent of instructor.

511-12 (4,4,4) Internship Practicum. The study of theory and practice in school administration pursued simultaneously by the student in cooperation with a public school and the Department. Prerequisite: consent of the department advisory committee.

520-4 Illinois School Law. Study of the legal aspects of Illinois public education with principal emphasis on statutory law and its interpretation by the courts. Prerequisite: 420.

524-4 School Administration. Designed primarily for those who look forward to positions as supervisors, principals, or superintendents.

534a-4 School Finance. A study of the principles and issues of Public School Finance. Revenues, expenditures, indebtedness, and fiscal controls.

551-4 Community Junior College Curriculum. Expanding curricula of the community junior college. College parallel, occupational technical, general developmental, and adult and community service programs critically analyzed. Investigation of techniques of curriculum development that implement desirable program changes. Prerequisite: 565 or consent of instructor.

554-4 Contrasting Philosophies of Education. Deals both historically and contemporaneously with the ideologies which have developed from different concepts of education. Prerequisite: 355 or Philosophy 355 or equivalent.

560-4 Curriculum. Modern practices and procedures in curriculum development, with attention to the professional, social, economic, and other major factors, in curriculum planning.

563-4 Workshop in School Public Relations. Designed to meet the needs of teachers, supervisors, and administrators, in the area of public relations. Prerequisite: consent of instructor.

565-4 The Community Junior College. Survey of the community junior college movement. History, philosophy, objectives, and expansion of this unique American educational phenomenon. Special attention given to these factors in the developing social scene that significantly influence the character of community junior colleges.

575-2 to 4 Individual Research. Selection, investigation, and writing of a research assignment under the personal supervision of a graduate faculty mem-

ber in one of the following areas: (a) curriculum, (b) supervision, (c) buildings, (d) finance, (e) school law, (f) comparative education; (g) history of education, (h) philosophy of education, (j) administration, (k) elementary education. Prerequisites: 500, approval of adviser, consent of instructor.

580-4 Research Seminar in Urban Education. (Same as Elementary Education 580.) Investigations in problems of teaching strategies and learning in inner city classrooms. Inquiries include review of existing relevant research as well as the design and testing of new research methodologies. Prerequisites: last half of master's program or beyond, consent of instructor.

596-5 to 9 Independent Investigation. Field study required of each student working for the sixth-year specialists certificate.

597-1 to 3, 598-1 to 3, 599-1 to 3. Thesis. Minimum of 5 hours to be counted toward the master's degree.

Elementary Education

314-4 Elementary School Methods. The fundamental principles of education, the interpretation of current educational theory and practice, the processes of teaching and learning involved in elementary education. Prerequisites: Counselor Education 305, Educational Administration 355.

337-4 Reading in the Elementary Schools. The principles of reading, factors that condition reading, together with grade placement of aims and materials; diagnostic and remedial treatment. Prerequisites: 314, Counselor Education 305, Educational Administration 355.

413-4 Children's Literature. Emphasizes types of literature, analysis of literary qualities, and selection and presentation of literature for children. Not for students who have had English 213. Prerequisite: Counselor Education 305.

415-2 to 4 Improvement of Instruction in Arithmetic in the Elementary School. Items to be taught, the grade placement of content, newer instructional practices and materials of instruction, and means of evaluating achievement. Prerequisites: 314, GSD 112.

442-4 Science for the Elementary Teacher. Study of content and methods of elementary school science.

480-4 Backgrounds of Urban Education. (See also Educational Administration 480 and Secondary Education 480.)

505-4 Improvement of Reading Instruction. (See Secondary Education 505.) First course in the reading sequence. Survey of reading problems, aspects of the reading process, modern practices in teaching reading.

507-2 to 4 Readings in Reading. Independent reading; acquaintanceship with the literature and research in reading. Conference periods. Prerequisites: 505, consent of instructor.

509-4 to 8 Practicum in Reading. For advanced student. Teaching demonstrations and evaluations. Each student works with a group of reading disability cases. Prerequisites: 512a,b, and c, and consent of instructor.

518-2 to 4 Supervision of Student Teachers. The function of the supervisory teacher in the student teacher situation. Particular attention to the problem of student teaching in the public schools. Designed for present and prospective teachers who wish to be more effective in dealing with student teachers.

521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities. Causes of reading difficulties; observation and interview procedures; standardized tests, instruments, and informal inventories; analysis techniques; experiences in preparing materials for corrective purposes. Each student diagnoses and treats a reading disability case under supervision. Prerequisites: 505, or concurrent registration with 505, and teaching experience.

542-4 Language Arts in the Elementary School. The practical bearing of investigation and theory on the improvement of current practices in the teaching of the language arts other than reading. Attention given to evaluation of teaching materials in these areas.

543-4 Teaching the Social Studies in the Elementary School. Organization of material for teaching purposes, techniques of classroom presentation, bibliographies or materials, use of audio and visual aids to instruction, and techniques for evaluating student progress. Readings, lectures, and discussions related to required teaching experience.

557-4 The Elementary Principalship. Designed to meet many of the particular needs of persons interested in qualifying for appointments as elementary school principals. Other than the administrative responsibilities of the elementary principal, such topics as the grouping of pupils, the elementary school's program, and personnel area studied.

561-4 The Elementary School Curriculum. A critical study of the reorganization, construction, and administration of the elementary school curriculum, and the installation, adaptation, and administration of the revised curriculum.

567-12 (4,4,4) Teaching Competencies and Their Application. Individualized and flexible group study of teaching behavior in competency centers. Skills are developed, applied, and tested in simulated or field settings.

575-2 to 4 Individual Research. The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: (a) curriculum, (b) supervision, (c) language arts, (d) science, (e) reading, (f) social studies, (g) problems in elementary education, (h) arithmetic, (j) problems in kindergarten-primary, (k) elementary education administration and supervision.

580-4 Research Seminar in Urban Education. (See Educational Administration 580.)

596-5 to 9 Independent Investigation. Field study required of each student working for the sixth year specialist certificate. The work should be done in the setting of a school system where the student is employed or where full cooperation is extended. The study involves selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.

597-1 to 3; 598-1 to 3; 599-1 to 3 Thesis. Minimum of 5 hours to be counted toward a master's degree.

Secondary Education

315-4 High School Methods. Study and discussion in various types of procedures used for effective classroom teaching. The problem approach and unit method are stressed. Prerequisites: Counselor Education 305, Educational Administration 355.

407-4 The Junior High School. The place of the junior high school in the organizational pattern, with major emphasis upon the areas of organization, administration, and curriculum.

480-4 Backgrounds of Urban Education. (See Educational Administration 480 and Elementary Education 480.)

488-4 Teaching Social Studies in Secondary Schools. Objectives, scope and sequence of curriculum, methods of teaching different courses and age groups, materials and evaluation. Prerequisite: 315.

505-4 Improvement of Reading Instruction. (See Elementary Education 505.)

507-2 to 4 Readings in Reading. Independent reading; acquaintanceship with the literature and research in reading. Conference periods. Prerequisites: 505, consent of instructor.

508-4 Seminar: Trends in Selected Areas in Secondary Schools. For students in advanced graduate work. Individual class members read basic bibliography related to secondary education and read widely about trends in the area of their own teaching fields. Prerequisites: completion of half or more of the work leading to a master's degree, consent of the instructor.

509-4 to 8 Practicum in Reading. For advanced students; teaching demonstrations and evaluations. Each student works with a group of reading disability cases. Prerequisites: 521a,b,c and consent of instructor.

521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities. Causes of reading difficulties; observation and interview procedures; standardized tests, instruments, and informal inventories; analysis techniques; experiences in preparing materials for corrective purposes. Each student diagnoses and treats a reading disability case under supervision. Prerequisites: 440 or 505 or concurrent registration with 505, and teaching experience.

562-4 The High School Curriculum. Designed to permit students to work in groups on problems related to the high school curriculum. Such problems should originate in the schools where the students are or will be employed. The point of view maintained is that procedures should be very domestic. The

instructor serves as a coordinator of activity; resource people are used freely. Prerequisite: one other graduate course in curriculum.

564-4 High School Principalship. Problems met specifically by the high school principal. Emphasizes his role in relation to guidance, curriculum, schedule-making, extracurricular activities, public relations, budgeting of time, etc. Prerequisites: Educational Administration 424, consent of instructor.

567-12 (4,4,4) Teaching Competencies and Their Application. Individualized and flexible group study of teaching behavior in competency centers. Skills are developed, applied, and tested in simulated or field settings.

575-2 to 4 Individual Research. The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: (a) Curriculum, (b) Supervision, (c) Language Arts, (d) Science, (e) Reading, (f) Social Studies, (g) Problems in Secondary Education, (h) Higher Education, (j) Junior College.

596-5 to 9 Independent Investigation. A field study required of each student working for the sixth-year professional certificate. The work should be done in the setting of a school system where the student is employed or where full cooperation is extended. The study involves selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.

597-1 to 3, 598-1 to 3, 599-1 to 3 Thesis. Minimum of 5 hours to be counted toward a master's degree.

Engineering

101-9 (3,3,3) Engineering Graphics. (a) Basic principles of graphic communications. Pictorial projection, sections and conventions, dimensioning auxiliary views, freehand lettering, and sketching. (b) Graphical solution of problems involving the understanding of the space relationships of points, lines, and planes; intersections and developments. (c) Auxiliary views, threads and fasteners, dimensioning. Laboratory must be taken in a,b,c sequence.

200-9 (3,3,3) Circuit Analysis. Integrated study of circuits AC, DC, and non-sinusoidal; network theorems and introductory transient analysis. Must be taken in a,b,c sequence. Prerequisite: concurrent enrollment in 201.

201-3 (1,1,1) Circuit Analysis Laboratory. Laboratory experiments exemplify the material covered in 200. Prerequisite: concurrent enrollment in 200

363-6 (3,3) Surveying. (a) Use and care of surveying instruments. Fundamental principles of surveying, computations, land surveying. (b) Field astronomy, route surveying, introduction to photogrammetry, hydrographic surveying, and subsurface surveys. Prerequisite: GSD 114c.

472-3 Digital Computers in Research. Basic foundations used in operations research. An intensive study in the use of digital computers as related to topics such as probability and statistics, matrices, game theory, Monte Carlo techniques, distribution and scheduling problems, and simulation. Prerequisite: Mathematics 225.

590-2 to 4 Readings in Engineering Mathematics. Selected topics in applied mathematics. Emphasis upon setting up and solving differential, difference, and integral equations for problems of practical significance in engineering design and systems analysis.

English

300-4 Principles of English Grammar. Required for English students. Others should take 391. Credit not allowed for both courses.

302-12 (4,4,4) Survey of English Literature. (a) to 1550, (b) 1550-1750, (c) after 1750. May be taken in any sequence.

309-8 (4,4) Survey of American Literature. (a) to 1860, (b) since 1860. May be taken in either sequence.

391-3 Usage in Spoken and Written English. Usage and structure of English. Prerequisite to student teaching, except in English concentrations, which require 300.

392-3 Professional Writing I. Introductory course for undergraduates. Prerequisite to 492, but credit for the course does not constitute automatic admission to 492. Prerequisite: consent of instructor.

404-12 (4,4,4) Middle English Literature. (a) Middle English literature excluding Chaucer; (b) Chaucer: early poems and *Troilus*; (c) Chaucer: *Canterbury Tales*. May be taken separately.

458-8 (4,4) American Fiction. (a) The novel in America from its beginnings to the early 20th century. (b) trends and techniques in the American novel and short story since 1914. May be taken separately.

460-16 (4,4,4,4) English Drama. (a) Elizabethan drama: from the beginning of the drama in late Middle Ages through its flowering in such Elizabethan playwrights as Greene, Peele, Kyd, Marlowe, Heywood, Dekker, but excluding Shakespeare; (b) Jacobean drama: the Jacobean and Caroline playwrights: Jonson, Webster, Marston, Middleton, Beaumont and Fletcher, Massinger, Ford, Shirley; (c) Restoration and 18th century drama: after 1660, representative types of plays from Dryden to Sheridan; (d) modern British drama. May be taken separately.

485-4 Problems in the Teaching of English. Aims, methods, materials, tests, programs, and other aspects of English instruction in the high school.

499-2 to 6 Readings in English. For English majors only. Departmental approval required. No more than four hours may be taken in any one quarter.

500-4 Materials and Methods of Research in English. The principal tools of literary scholarship and the more important studies and journals. Practice in the preparation of selective bibliographies and scholarly reports.

501-4 Old English Grammar. The development of the forms, the grammar, and readings.

Finance

320-4 Corporation Finance. A study of the principal duties of corporate financial officers and the problems of administrative financial management of business. Topics include planning, budgeting and control, external sources of capital. Prerequisites: Accounting 230, 231; Economics 200, 201.

423-4 Commercial Banking Operations. The administration and operation of a commercial bank, including organization structure and asset management. Major problems are analyzed through the study of cases. Prerequisite: 420.

520-4 Finance. Basic aspects of business finance. Sources of capital, short- and long-term financial planning and policy-making, the impact of the banking systems and of money or capital markets on business finance. Restricted to Master of Business Administration students.

Foreign Languages

399-3 to 9 Readings. Readings in selected works of representative writers. Offered in French, Spanish, and German. May be taken for one, two, or three quarters. Primarily for students with no foreign language concentration, but may be taken for credit in foreign language concentration with consent.

French

123-3 (1,1,1) French Conversation. Conversation and oral drill taken with GSD 123 by students who wish additional oral training; elected only by students enrolled in GSD 123. May be taken separately.

545-3 Applied Linguistics and Remedial Phonetics. Fundamentals of linguistics with particular reference to their application to classroom procedures in the teaching of French, plus the analysis and correction of individual pronunciation difficulties. Prerequisite: bachelor's degree with emphasis in foreign languages.

German

126-3 (1.1.1) German Conversation. Conversation and oral drill taken with

GSD 126 by students who wish additional oral training: elected only by students enrolled in GSD 126. May be taken separately.

Spanish

140-3 (1,1,1) Spanish Conversation. Conversation and oral drill taken with GSD 140 by students who wish additional oral training; elected only by students enrolled in GSD 140. May be taken separately.

General Business Administration

140-4 Introduction to Business. An overview of the basic nature of business in an essentially market-disciplined economic system. Emphasis on the interdisciplinary nature of business and the broad administrative principles governing organized human endeavor. Introduction to business and economic terminology and to the case method of developing analytical ability.

342-4 Contracts—Agency Law. Study and discussion of the terminology, definitions, and principles of contract law applicable to the contractive problems in the operation of a business, including the relevant provisions of the uniform commercial code. The application of the principles of agency law by the entrepreneur in operating his firm, and his legal liability to his agency and third parties with whom he deals.

Geography

410-8 Quantitative Methods in Geography. Statistical and computer research techniques for geographers.

461-7 (4,3) Advanced Regional Geography: Anglo-America. Deals geographically with present-day U.S. and Canada. (a) A general survey of the area, open to students without a concentration. (b) Investigates specific topics in depth, for students with a concentration in geography

501-4 Geographic Techniques II. Emphasizes the conceptual framework of geography library and bibliographic techniques, and geographic writing.

Government

410-8 (4,4) Quantitative Methods in Political Science (Same as Geography 410) Statistical and computer research techniques for political scientists.

499-4 Scope and Method of Political Science. Introduction to major schools of thought and basic research techniques in political science. Prerequisites: 200, 20 upper division hours in government.

521-1 to 12 Readings in Government. Supervised readings in selected subjects. Not more than 6 hours may apply toward the master's degree. Prerequisite: consent of instructor.

529-2 to 9 Seminar in Public Administration. Prerequisite: consent of instructor.

Health Education

355-4 Introduction to Public Health. Philosophy, organization, administration, and functions of federal, state, and local, official and voluntary public health agencies. Periodic field trips involved.

History

102-4 Survey of Asian Civilization. An introduction to the history of East Asia from the earliest times to the twentieth century. Emphasis on China and Japan.

332-9 (3,3,3) Medieval History. (a) Early Middle Ages, 500-1000. (b) High

Middle Ages, 1000–1300. (c) Late Middle Ages, 1300–1500. Prerequisite: sophomore standing.

401–4 History of the South. (a) The Old South. (b) The New South. An intensive study of the social, economic, political, and cultural developments of the South.

410–2 to 5 Special Readings in History. Supervised reading for students with sufficient background. Registration by special permission only. Offered on demand.

420–4 The French Revolution. A sketch of the passing of feudalism in France, the background and development of the revolutionary movement, and the Napoleonic period.

430–9 (3,3,3) Late Modern Europe. (a) Age of Revolution, 1815–1880. (b) 1880–1918. (c) Since 1918. Age of Dictatorships.

452–3 Historical Research and Thesis Writing. (For students with history concentrations.) The rules of historical research studied and applied to a definite topic.

500–3 to 9 History Seminar. (a) American history, (b) European history, (c) Latin American history.

510–2 to 5 Readings in History. Registration by special permission only.

575–9 (3,3,3) Studies in Latin American History. A content and research course concerning selected studies in Latin American history.

599–1 to 9 Thesis. Minimum of 5 hours to be counted toward a master's degree.

Humanities

301–3 to 4, 302–3 to 4, 303–3 to 4 Humanities Honors. Prerequisite: completion of the second-level General Studies courses and invitation of the Humanities Honors Program Committee. Accepted in lieu of third-level GSC requirement.

Instructional Materials

308–4 School Library Technical Processes. Organization of library materials for effective service. Acquisition, classification, cataloging, preparation, preservation, and circulation. Laboratory assignments.

403–4 School Library Functions and Management. Effective library services in relation to the educational objectives of elementary and secondary school programs: organization, supervision, finance, housing, equipment, standards, and evaluation.

406–4 Library Materials for Adolescents. A study of the aids, methods, and criteria for the selection and use of books and other instructional materials for students in the high school. Open to juniors with consent of instructor.

417–4 Audio-Visual Methods in Education. Selection and utilization of instructional materials in the learning environment, elementary through adult levels. Audio and visual materials and procedures are emphasized with some attention given to bibliographies and reference books for teachers.

440–2 Photography for Teachers. Techniques of picture-taking and the preparation of color slides of community resources for use in classroom instruction and for school public relations.

445–4 Preparation of Teacher-Made Audio-Visual Materials. Laboratory practice in the preparation of bulletin boards, opaque materials, models, slides, recordings, feltboards, and other graphic materials. Prerequisite: 417 or consent of instructor.

530–4 History of Books and Libraries. The evolution of the printed book and the rise and development of modern libraries.

548–4 Supervision and Administration of an Audio-Visual Program. Provides professional information and training for persons with administrative responsibilities at the district or unit level. Primarily designed for directors of Instructional Materials and Audio-Visual Centers. Prerequisite: 417 or consent of instructor.

549–4 Visual Learning. Learning from pictures in the classroom, the design of still and moving pictures, pictures used in testing perception, and the place of pictures in advertising and communication. Prerequisite: consent of instructor.

560-4 Seminar in Instructional Materials. Designed to give advanced graduate students an opportunity to investigate and discuss topics in instructional materials before the seminar group. Topics selected depend on background and interest of individuals. Prerequisite: consent of instructor.

Management Operating Systems

381-4 Management Operating Systems II. A study of the complexities involved in the simultaneous integration of several sub-systems. Teams of students design company or corporate-wide management operating systems. The computer is used. Prerequisites: Accounting 341, Marketing 452, Production 460, senior standing.

588-4 Seminar in Management Systems. Broadens and deepens understanding of the application of management science to business. Brings together computer-supported quantitative methods and considers ways of making these tools available for business decisions. Problems are taken from such areas as distribution, production, inventory, finance, budgeting, managerial accounting, and personnel. Prerequisites: 583, Quantitative Methods 513.

Marketing

371-4 Principles of Marketing Management. An introductory survey of the problems encountered by the marketing executive and the analytical and evaluative systems available which can be used to improve his operating efficiency. Emphasis is placed on the use of marketing management factors in the areas of markets, products, distribution, price, and promotion. Prerequisite: 370

471-4 Advertising Policy and Management. Advertising strategy, planning, and research and their relationship to other marketing tools. Emphasis on problems faced by marketing and business executives in administering the advertising effort. Prerequisite: 470.

Mathematics

101-4 Fundamental Mathematics. Basic notions of sets; number systems and their algebraic properties and some computational aspects; ordering of real numbers, inequalities, and absolute value; intuitive geometry; relations, variables, and functions. Individual instruction given as needed until completion of intermediate algebra. Ten lecture and laboratory hours per week. May not carry credit toward some degrees. Graded on pass-fail basis only.

150-8 (4,4) Elementary Calculus and Analytic Geometry. Elementary differential and integral calculus with analytic geometry and applications. Includes the definite integral and differentiation of transcendental functions. Must be taken in a,b sequence. Prerequisite: GSD 114c.

225-4 Programming for Digital Computers. An intensive course. Topics include computer organization and characteristics, machine language coding, flow charts, subroutines, symbolic coding, and compiler systems. Equipment of the University's Data Processing and Computing Center is used for applications. Prerequisite: GSD 114a.

305-8 (4,4) Applied Mathematics for Physical Sciences. (a) Ordinary differential equations, Laplace transforms, second order linear differential equations with singular points, special functions. (b) Fourier series and boundary value problems, solution of partial differential equations of the first and second order. Must be taken in a,b sequence. Prerequisite: 252b.

321-4 Elementary Matrix Algebra. Introduction to the algebra of matrices and theory of determinants: inverse of a matrix, rank and equivalence, linear equations, and linear dependence. Prerequisite: 150b.

351-4 Multivariable Calculus. Vector algebra, functions of several variables, the differential and integral calculus. Topics include directional derivatives, maxima and minima, gradient, divergence and curl, line and surface integrals, Green's Theorem, Stoke's Theorem, and integrals independent of path. Prerequisites: 252b, Physics 211a.

395-2 to 12 Readings in Mathematics. Supervised reading in selected subjects. Prerequisites: 12 hours of 300- or 400-level mathematics, 4.0 average in mathematics and consent of chairman.

410-16 (4,4,4,4) Statistical Analysis. For students in fields using statistical methods but not required to take calculus. Includes (a) elements of probability, estimation, and testing hypotheses; (b) the general linear model (multiple linear regression, analysis of variance, analysis of covariance) and non-parametric statistics; (c) design of experiments; (d) sample survey techniques. May not be used to satisfy requirements for a mathematics concentration. Three lectures and two laboratory hours per week. Must be taken in either a,b,c,d or a,b,d,c sequence. Prerequisite: GSD 114a.

433-3 Theory of Point Sets. General properties of sets; topology of plane sets; closed sets and open sets in metric spaces, homeomorphisms and continuous mappings, connectedness. Prerequisite: 252b and 6 hours in courses numbered 300 or higher, or consent of instructor.

446-2 to 10 Structure of Mathematics. Designed to assist experienced teachers in extending their understanding of mathematics. (a) Elementary School Mathematics, (b) Junior High School Mathematics. Does not count credit toward a mathematics concentration. Prerequisites: experience in teaching, consent of instructor.

455-9 (3,3,3) Advanced Mathematics for the Physical Sciences. Introduction to various topics such as complex variable theory with applications, operational calculus (Laplace and other transforms), vector field theory, and partial differential equations. May be taken separately or in any sequence. Prerequisite for a: 252b; for b,c: 305a.

458-6 (3,3) Finite Mathematics. An introduction to topics in finite mathematics such as logic, sets, probability, linear algebra, and Markov chains. Designed for students preparing for high school teaching and for advanced students in the behavioral sciences. Prerequisite: 252a or consent of instructor.

472-9 (3,3,3) Computer Science. An introduction to computing systems and the mathematics of computation. (a) Computer organization, design, and programming systems. (b) Linear system problems, linear programming and network problems. (c) Digital simulation problems, linear and other probabilistic problems. Prerequisites: 225, 305a, 321.

475-9 (3,3,3) Numerical Analysis. Introduction to approximation methods including finite differences and interpolation; numerical differentiation and quadrature; least squares approximation; numerical solution of linear and nonlinear systems; numerical integration of systems of ordinary and partial differential equations. Emphasis upon error analysis throughout. Must be taken in a,b,c sequence. Prerequisites: 305a or 252b, consent of instructor.

501-9 (3,3,3) Real Variables. A basic course in mathematical analysis. (a,b) The real number system; fundamental theorems in limits and continuity; open, closed, compact, and connected sets in Euclidean and metric spaces; the Riemann and the Riemann-Stieltjes integrals and functions of bounded variation; infinite series; uniform continuity; uniform convergence of series and improper integrals; arcs and curves; implicit function theorem; multiple integrals. (c) The general theory of measure and integration from an abstract point of view. Additive classes of sets, Borel sets, measurability, measure and outer measure; integrable functions, convergence theorems; absolute continuity and the Radon-Nikodym theorem; Fubini's theorem. Must be taken in a,b,c sequence. Prerequisite: 452c.

520-9 (3,3,3) Modern Algebra. Displays some of the richness of algebra when mathematical systems other than the traditional one based upon the real numbers are considered. Abstract theory of groups, rings, and fields, with particular attention to examples from permutation groups, matrices, vector spaces, and polynomial and other function spaces; rational numbers and fields, complex numbers, unique factorization, algebraic number fields. Must be taken in a,b,c sequence. Prerequisite: 420.

550-1 to 10 Seminar. Supervised study and preparation of reports on assigned topics. Reports presented for class discussion. (a) Algebra. (b) Geometry. (c) Analysis. (d) Probability and Statistics. (e) Mathematics Education. Prerequisite: consent of instructor.

555-9 (3,3,3) Complex Variables. Classical and modern analytic function theory, including Cauchy-Riemann equations, Cauchy-Goursat theorem, conformal mapping, normal families, Reimann mapping theorem, calculus of

residues, analytic continuation, Riemann surfaces, entire functions. Must be taken in a,b,c sequence. Prerequisite: 452c.

580-9 (3,3,3) Mathematical Methods of Statistics. A presentation of probability and statistical inference based on an axiomatic approach and employing advanced mathematical concepts. Topics include the theory of measure and integration in R , foundations of probability, random variables and distributions in R , sampling distributions, tests of hypotheses, theory of estimation. Must be taken in a,b,c sequence. Prerequisite: 452, 455.

595-1 to 10 Special Project. An individual project, including a written report. (a) Algebra; (b) Geometry; (c) Analysis; (d) Probability and Statistics; (e) Mathematics Education.

599-1 to 9 Thesis. Minimum of 5 hours to be counted toward the Master of Arts degree.

Music

002-7 (1,1,1,1,1,1) Choral Ensembles. (a) Collegiate Singers, (b) University Chorus, (c) Male Chorus, (d) Women's Glee Club, (e) Southern Illinois University Community Choral Society, (f) Madrigal Singers, (g) Concert Chorale. May be taken in any sequence. Any part may be repeated for twelve quarters. Prerequisite: auditions for a,f,g.

205-9 (3,3,3) Theory of Music. Advanced harmonic techniques, modulation, altered chords, chromatic harmony, counterpoint, and introduction to contemporary harmonic principles. Must be taken in sequence. Prerequisite: 105c.

307-4 Recreational Music. For those interested in the less formal approach to music and for prospective leaders for recreational activities.

442-6 (3,3) Contrapuntal Forms. (a) Analysis and creative writing in the style of Palestrina and his contemporaries and the contrapuntal-harmonic technique of Bach. (b) Analysis and creative writing of the larger imitative forms. Must be taken in a,b sequence. Prerequisite: 205c.

499-1 to 3 Independent Study. The capable student engages in original investigations with faculty specialists. May be repeated for credit. Prerequisite: consent of instructor.

501-3 Introduction to Graduate Study in Music. Basic bibliographical and historical research techniques in music theory literature, and education.

519-9 (3,3,3) Vocal Pedagogy and Literature. (a) A study of vocal pedagogy with emphasis on the techniques and materials to be used with beginning voice students. (b) Advanced vocal pedagogy with related study of the history of singing and of the teaching of singing. (c) A survey of literature for solo voice and its relation to vocal pedagogy.

560-2 to 6 Seminar in Music Education. Trends, current practices, philosophies of music education.

566-1 Instrumental Ensemble. Participation in a chamber or large ensemble for purposes of studying and performing literature in the field of the major instrument other than solo literature.

567-1 Vocal Ensemble. Participation in a chamber or large ensemble for purposes of studying and performing literature in the field of the vocal music other than solo literature. Includes madrigal groups, choral ensembles, women's chorus, etc.

599-3 to 9 Thesis.

Personnel and Industrial Relations

451-4 Labor Relations Law and Collective Bargaining. An analysis of labor relations legislation and the complex interrelations of management, employees, and labor unions, as well as of collective bargaining contracts, their scope, enforceability, and significance to labor relations. Cases and reports are incorporated. Prerequisite: General Business Administration 340.

Philosophy

301-4 Philosophy of Religion. An analysis of problems in the psychology,

metaphysics, and social effects of religion. The nature of mystical experience, the existence of God, and problems of suffering, prayer, and immortality.

490-2 to 12 Special Problems. Seminar for qualified seniors and graduate students to pursue specific topics in depth. Varied content. Prerequisite: consent of instructor.

495-2 to 12 Independent Readings. Independent study in philosophy on a tutorial basis. Prerequisite: consent of instructor and chairman.

Physical Education

350-4 Methods and Materials for Teaching Physical Education Activities in the Elementary School. The organization and conduct of the program, program planning, evaluation of materials, observation and practice in creative rhythms, singing games, folk dancing, and games of low organization. (Required for elementary education.)

389-4 Affiliation in Physical Education. Observing and assisting instructor in planning, scheduling, and conducting a physical education program. Students acquire this experience by working in area schools. Prerequisite: consent of instructor.

475-2 to 4 Individual Research. The selection, investigation, and writing of a research paper under the supervision of instructor.

501-4 Curriculum in Physical Education. Principles and procedures for curriculum construction and revision; criteria for selecting activities and judging outcomes and the place of the physical education course of study within the total curriculum.

502-4 Foundations of Motor Skills. Application of physiological, kinesiological, and mechanical principles to intelligent control of large-muscle activities. Recommended background: a course in kinesiology.

Physics

211-12 (4,4,4) University Physics. A basic course for science, mathematics, and pre-engineering students. (a) Kinematics, dynamics, and statics. (b) Thermodynamics, wave motion, acoustics, optics. (c) Electrostatics, electric current theory, magnetism, and electromagnetic waves. Three lecture and two recitation hours per week. Must be taken in a,b,c or a,c,b sequence. Prerequisite: (a) Mathematics 150a or concurrent enrollment; (b,c) 211a, Mathematics 150b or concurrent enrollment.

212-3 (1,1,1) University Physics Laboratory. Experiments in mechanics, heat, sound, light, electricity, and magnetism. Meets three hours per week. Prerequisite: concurrent enrollment in 211.

304-4 Thermodynamics and Kinetic Theory. A macroscopic study of the thermal properties of matter and the laws of the thermodynamics. Kinetic theory and the distribution of molecular velocities. Transport phenomena. Prerequisite: 211b.

420-2 to 5 Special Projects. Each student is assigned to a definite investigative topic. Adapted to advanced undergraduate students. Prerequisite: 8 hours of physics courses above 300.

510-9 (3,3,3) Classical Mechanics. Variational principles and Lagrange's equations; rigid body motion; special relativity; canonical equations, small oscillations including non-linear problems; perturbation methods; classical theory of fields. Prerequisite: 301.

531-9 (3,3,3) Quantum Mechanics. Wave mechanics, matrix mechanics, transformation theory of quantum mechanics; angular momentum, perturbation theory, scattering theory. Prerequisites: 415, Mathematics 407 or consent of instructor.

590-1 to 9 Research in Physics (Thesis). 1-5 hours each quarter. Prerequisite: consent of faculty.

Production

461-4 Methods Design and Work Measurement. Design of work systems,

methods, and techniques employed in the measurement of work. Emphasizes current philosophy underlying improvement of work methods and procedures used to measure work performed. Covers four major areas: methods design, standardizing the operation, work measurement, and training the operator. A number of projects correlating with the course material are assigned. Prerequisite: 460.

Psychology

301-4 Child Psychology. A study of the biological and psychological development of the child from birth through puberty, and of relevant research methods and results. Prerequisite: GSB 201c.

303-4 Adolescent Psychology. Examines the physical and psychological development of the adolescent, and the relevance of childhood development to adolescent problems. Prerequisite: GSB 201c.

305-4 Introduction to Personality Dynamics. Exploration of human motivations, personality patterns, and ways of coping with the stresses of modern life. Prerequisite: GSB 201c.

307-4 Social Psychology. Introduction to the study of the individual's interaction with his social environment. Considers problems of social learning, attitude formation, communication, social influence processes, and group behavior. Prerequisite: GSB 201c.

420-4 Experimental Analysis of Behavior. An examination of the principles of respondent and operant conditioning in human and animal behavior. Lecture and laboratory. Prerequisite: GSB 201c.

431-4 Psychopathology. Classification, description, etiology and treatment of the disorders of personality organization and behavioral integration. Observations in a state mental hospital setting. Prerequisite: 305 or consent of instructor.

432-4 Mental Hygiene. An integration of psychological knowledge and principles concerning factors and conditions affecting the individual which tend to facilitate or determine health.

440-4 Theories of Personality. A review and critical evaluation of major personality theories and their supporting evidence. Prerequisite: 305 or consent of instructor.

465-4 Group Dynamics and Individual Behavior. Examination of research and theory in the area of small-group interaction. Examines such topics as group structure and function, group problem-solving, leadership, etc. Prerequisite: 320 or consent of instructor.

474-4 Psychology of Employee Relations. A study of job satisfaction and morale, psychological aspects of labor relations, industrial counseling, social and organizational variables as they affect psychological climate in employee relations. Prerequisite: 320 or consent of instructor.

490-1 to 8 Independent Projects. Independent readings and projects in psychology. Prerequisite: consent of instructor and chairman.

501-12 (4,4,4) Proseminar in General Psychology. Basic conceptual and methodological problems in the study of behavior. (a) History and systems of psychology, philosophy of science, scientific methodology, behavior theory. (b) Personality and individual differences, new conceptual and methodological developments and trends. Must be taken in a,b,c sequence. Prerequisite: consent of instructor. Open to students in other areas by consent of chairman.

520-4 Research Design and Inference I. Study of elements of probability, design, and analysis of simple experiments including t and F tests; selected non-parametric tests and multiple regression analysis. Prerequisite: 211b or Counselor Education 420.

530-4 Personality Theory and Dynamics. Intensive treatment and critical analysis of several representative approaches to personality. Consideration also of important personality concepts common to most theoretical approaches. Prerequisite: consent of instructor.

541-6 to 8 (4, 2 to 4) Psychodiagnostics I. Introduction to clinical psychology with attention to the function and clinical use of individual intelligence tests. Theories of intelligence and related research. Age scales with emphasis on infant and child testing. Point scales and tests of deterioration with emphasis

on child and adult testing. Lecture and practicum. Prerequisites: 520, consent of instructor.

590-1 to 16 Readings in Psychology. Readings in selected topics in psychology under staff supervision. Prerequisite: consent of chairman.

591-1 to 36 Research in Psychology. Research under staff supervision in selected areas of psychology. Prerequisite: consent of chairman.

593-1 to 18 Practicum in Psychology. Practicum experience in a professional setting is offered under staff supervision in the following areas: (e) Clinical Psychology, (f) Counseling Psychology, (h) Industrial Psychology, (j) Child Psychology, (k) Community Health Psychology, (l) Teaching of Psychology, (s) School Psychology.

Quantitative Methods

210-4 Probability in Decision Making. Introduction to certain modern mathematical concepts and methods applicable to business decisions including probability, probability distributions, and elements of calculus. Prerequisite: GSD 114d.

510-4 Statistical Analysis for Decision-Making. Statistical techniques applicable to business including distributions of one variable, index numbers, time series, multivariate distributions. Introduction to probability, sampling, estimation with confidence intervals, tests of hypotheses, regression, and correlation. Restricted to Master of Business Administration students.

Science and Technology

415-1 to 3 Instructional Innovation for the Physical Sciences. A variety of subject matter with regard to its order of presentation in a course, the type of plausibility arguments most successful in a "derivation," the types of demonstrations most appropriate to the subject matter, and the relation of laboratory work to the lecture content.

Sociology

302-4 Contemporary Social Problems. Discussion and analysis of selected contemporary social problems with consideration of alternative courses of action. Prerequisite: 301.

396-1 to 5 Readings in Sociology. Supervised reading in selected subjects. Prerequisite: consent of chairman.

405-4 Current Sociology. A survey of important trends in contemporary social thought. Reading, reporting, and evaluating content of leading sociological journals. Prerequisite: consent of instructor.

451-4 Social Thought II: The Sociological Movement. From romanticism to realism; rise and development of scientific social thought. Prerequisite: consent of instructor.

501-4 Survey of Sociological Theory. The development of sociology as a science of society, from synthetic philosophy to analytic sociology. Prerequisite: 451 or consent of instructor.

Social Welfare

383-4 Introduction to Interviewing. Theory and practice of interviewing as a means of gaining information, and of understanding and imparting the same. Focus is on the interview as a tool in social work, but principles are generally applicable. Prerequisite: GSB 103a or 201c.

Special Education

410a-4 Problems and Characteristics of the Emotionally Disturbed Child.

Diagnosis, screening, classroom management, placement considerations, goals, and the effective use of ancillary services. Emphasis on the understanding of maladaptive behavior through principles of learning and behavior dynamics. Observations.

410b-4 Problems and Characteristics of the Mentally Retarded. Objectives, curriculum, methods, and materials of instruction for slow learners. Emphasis upon the principles of learning as they can be applied to this group. Observations. Prerequisite: Counselor Education 305 or Psychology 301 or 303.

410c-4 Problems and Characteristics of the Gifted Child. Designed to help teachers in the identification of, and programming for, gifted and talented children. Prerequisite: Counselor Education 305 or Psychology 301 or 303.

414-4 The Exceptional Child. Physical, mental, emotional, and social traits of all types of exceptional children. Effects of handicaps in learning situations. Methods of differentiation and techniques for rehabilitation. Individual case studies used; observations and field trips. Prerequisites: Counselor Education 305, Psychology 301 or 303.

420b-4 Methods and Materials in the Education of the Educable Mentally Handicapped. Offered in conjunction with practice teaching. Methods and materials needed in teaching educable mentally handicapped children.

428-4 Speech Correction for the Classroom Teacher. (Same as Speech Pathology and Audiology 428.) Etiology and therapy of common speech defects. Open to in-service teachers, seniors and graduate students in education.

496-1 to 8 Readings and Independent Study in Special Education. Study of a highly specific problem area in the education of exceptional children. Open only to selected seniors and graduate students. Prerequisites: 414, consent of staff.

501-4 Special Research Problem. For majors and minors in the field of special education. Choosing and conducting research activities. The student to select a topic for research and present it, upon completion, to the staff. Prerequisite: consent of staff.

577-4 to 12 Practicum in Special Education. Supervised experience in school or institution programs for atypical children. Special research project. Open to graduate students only. Prerequisites: 410a or b or consent of staff.

590-12 (4,4,4) Seminar: Mental Retardation. Critical review of administrative practices, research, theories and etiological factors relevant to programs in the education of children who are mentally retarded or gifted. Implications of research in related disciplines. Application of theories to practice. Open to advanced graduate students in special education only. Prerequisite: consent of instructor.

Speech Pathology and Audiology

428-4 Speech Correction for the Classroom Teacher. (Same as Special Education 428.) Etiology and therapy of common speech defects. Open to in-service teachers, seniors, and graduate students in education.





Edwardsville, Illinois 62025

Carbondale, Illinois 62901

Southern Illinois University *Bulletin*

*1969/1970 Vocational-Technical Institute Catalog
Carbondale Campus*



OBJECTIVES OF SOUTHERN ILLINOIS UNIVERSITY

TO EXALT BEAUTY

*In God,
in nature, and
in art;
Teaching how to love the best
but to keep the human touch;*

TO ADVANCE LEARNING

*In all lines of truth
wherever they may lead,
Showing how to think
rather than what to think,
Assisting the powers
of the mind
In their self-development;*

TO FORWARD IDEAS AND IDEALS

*In our democracy,
Inspiring respect for others
as for ourselves,
Ever promoting freedom
with responsibility;*

TO BECOME A CENTER OF ORDER AND LIGHT

*That knowledge may lead
to understanding
And understanding
to wisdom.*

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*1969/1970 Vocational-Technical Institute Catalog
Carbondale Campus*

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This Issue

of the *Southern Illinois University Bulletin* covers in detail questions concerning the Vocational-Technical Institute and its associate degree programs. It supersedes Volume 9, Number 1.

THE FOLLOWING issues of the *Southern Illinois University Bulletin* may be obtained free from Central Publications, Southern Illinois University, Carbondale, Illinois 62901.

Vocational-Technical Institute Catalog.

Guidelines for Prospective Students (Carbondale or Edwardsville).

Schedule of Classes. Please specify *quarter* (fall, winter, spring, or summer) and *campus* (Carbondale or Edwardsville).

Undergraduate Catalog. The catalog is available for examination in high school guidance offices and libraries throughout Illinois and in some other states. Copies will be furnished free to educational institutions upon request and to new students upon matriculation. The catalog may be purchased at the University Bookstore for \$1; mail orders should be sent to Central Publications and must include remittance payable to Southern Illinois University.

Graduate School Catalog (Carbondale or Edwardsville).

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Contents

University Calendar	v
Board of Trustees; Officers of Administration	vi
1 / THE UNIVERSITY AND THE CAMPUS ORGANIZATION	1
The University in Perspective	1
Carbondale Campus	1
Publications	2
Division of Technical and Adult Education	3
Vocational-Technical Institute	3
Degrees and Certificates	3
Student Organizations and Activities	4
Adult Education	4
Special Services	6
Housing	6
Student Work Program	6
Student Financial Assistance	6
Advisory Committees	7
2 / ACADEMIC REQUIREMENTS AND PROCEDURES	13
Admission Policies, Requirements, and Procedures	13
Admission of Freshmen	13
Admission of Transfer Students	14
Admission of International Students	15
Admission of Former Students	15
Applying for Admission	15
Documents Required for Admission	16
Orientation, Advisement, Registration	16
Academic Advisement	17
Registration	18
Withdrawal from the University	18
Tuition and Fees	18
Payment and Refunding of Fees	20
Student Residency Regulations	20
Grading System	21
Special Grading System	22
Scholastic Standing	23
Class Standing	24
University Recognition of High Scholastic Achievement	24
Scholastic Program Flexibility for the Student	24
High School Advanced Placement Program	25
Proficiency Examinations	25
Extension and Correspondence Credit	26
Credit for Military Experience	26
Scholastic Probation and Suspension System	27
Scholastic Warning	27
Scholastic Probation and Suspension	27

Graduation Procedures	28
Related Academic Information	29
Unit of Credit	29
Academic Load	29
3 / ACADEMIC PROGRAMS	30
General Studies Requirements	30
Associate in Art Degree Programs	30
Commercial Art	30
Corrections and Law Enforcement	31
Law Enforcement	31
Institutional Service	32
Community Services	33
Dental Hygiene	33
Library and Audio-Visual Technical Assistants	35
Physical Therapy Assistants	36
Associate in Business Degree Programs	37
Accounting	37
Cooperative Retailing	38
Electronic Data Processing	39
Executive Secretarial	40
Legal Secretarial	41
Medical Secretarial	42
Associate in Technology Degree Programs	43
Architectural Technology	43
Automotive Technology	44
Aviation Technology	45
Maintenance Technician	46
Professional Pilot	47
Aviation Electronics	48
Building Construction Technology	49
Dental Laboratory Technology	50
Electronic Data Processing	51
Electronics Technology	52
Electrical Power Transmission	54
Forest Products Technology	54
Highway and Civil Technology	56
Machine Drafting and Design Technology	57
Mortuary Science and Funeral Service	58
Printing Technology	59
Tool and Manufacturing Technology	60
Water Resources Technology	61
Course Descriptions	63
List of Subject Areas	63
Vocational-Technical Institute Courses	63
Other Courses Included in VTI Programs	84
4 / FACULTY	87
INDEX	90

University Calendar

<i>FALL, 1969</i>	New Student Week	Sunday–Tuesday, September 21–23
	Quarter Begins	Tuesday, September 23 *
	Thanksgiving Vacation	Tuesday, 10 P.M.– Monday, 8 A.M., November 25–December 1
	Final Examinations	Monday–Saturday, December 15–20
<i>WINTER, 1970</i>	Quarter Begins	Monday, January 5 *
	Final Examinations	Monday–Saturday, March 16–21
<i>SPRING, 1970</i>	Quarter Begins	Monday, March 30 *
	Memorial Day Holiday	Friday, May 29
	Final Examinations	Monday–Saturday, June 8–13
	Commencement (Carbondale)	Friday, June 12
	Commencement (Edwardsville)	Saturday, June 13
<i>SUMMER, 1970</i>	Quarter Begins	Monday, June 22 *
	Independence Day Holiday	Friday, July 3
	Final Examinations	Monday–Friday, August 31–September 4
	Commencement (Edwardsville)	Friday, September 4
	Commencement (Carbondale)	Saturday, September 5
<i>FALL, 1970</i>	New Students	Sunday–Tuesday, September 20–22
	Quarter Begins	Tuesday, September 22 *
	Thanksgiving Vacation	Tuesday, 10 P.M.– Monday, 8 A.M., November 24–30
	Final Examinations	Saturday–Friday, December 12–18
<i>WINTER, 1971</i>	Quarter Begins	Monday, January 4 *
	Final Examinations	Saturday–Friday, March 13–19
<i>SPRING, 1971</i>	Quarter Begins	Monday, March 29 *
	Memorial Day Holiday	Monday, May 31
	Final Examinations	Saturday–Friday, June 5–11
	Commencement (Edwardsville)	Friday, June 11
	Commencement (Carbondale)	Saturday, June 12

* Classes begin with the evening classes after 5:30 P.M. on the Carbondale Campus and with the evening classes after 4:30 P.M. on the Edwardsville Campus.

Board of Trustees

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1 / The University and the Campus Organization

THE UNIVERSITY IN PERSPECTIVE

THE YEAR 1969 BEGINS the five-year-long celebration of the centennial of Southern Illinois University, which was chartered in 1869, and which initiated instruction in 1874. Since that time the University has sought to meet the educational needs of the times for the people whom it serves as a public institution. Consistent with the character of the University, the centennial celebration will stress the hopes and goals of the future in each of the major academic areas, rather than dwelling on the real accomplishments in the past history of Southern Illinois University.

Although the student population has increased to the point that Southern Illinois University was recently rated twentieth in the nation in enrollment of full-time resident students and twenty-third largest in total enrollment, the formation of schools, colleges, divisions, and departments within the University permits focus on the special interests of individual students. The University comprises the faculty and facilities to offer general and professional training ranging from two-year associate degree programs to doctoral programs.

Though Southern Illinois University is a single university, it has two major campuses, the Carbondale Campus, with its Vocational-Technical Institute and Little Grassy Facilities, and the Edwardsville Campus which offers degrees at Alton, East St. Louis, and Edwardsville.

The University has maintained extensive overseas operations in many parts of the world, and it continues to develop its international education dimensions.

The University is fully accredited by the North Central Association of Colleges and Secondary Schools. The University and its various academic components carry the following accreditation on the baccalaureate and higher levels: North Central Association, National Council for Accreditation of Teacher Education, American Association of Collegiate Schools of Business, American Chemical Association, American Council on Education for Journalism, American Dietetics Association, American Psychological Association, American Speech and Hearing Association by American Board of Examiners in Speech and Hearing, Board of Vocational Education of the State of Illinois, National Association of Schools of Music, United States Office of Education, and State Board of Vocational Education for Vocational Home Economics.

Carbondale Campus

Immediately south of the city of Carbondale, the University campus, comprising more than four thousand acres, has developed a three-hundred-acre portion with woods and a lake as a site for its academic buildings

and residence halls. The buildings are located in wooded tracts along two circular shaped campus drives, named for Lincoln and Douglas. Features that are located near the center of the campus complex are a wooded tract, preserved in the tradition of the native forests of Southern Illinois, and several buildings surrounding Old Main which formed the original campus almost a century ago. Among the recent additions to the campus skyline are the high-rise residence halls, the Morris Library with more than a million volumes, a multi-media classroom building, and the dome shaped S.I.U. Arena, seating more than 10,000 people for academic and recreational events.

The city of Carbondale is 100 miles southeast of Saint Louis, Missouri, in Jackson County, the western border of which is the Mississippi River. Immediately south of Carbondale begins some of the most rugged, picturesque terrain in Illinois. Sixty miles to the south is the historic confluence of the Ohio and Mississippi rivers, the two forming the border of the southern tip of Little Egypt, the fourteen southernmost counties in Illinois. The region immediately surrounding Carbondale is noted for its large peach and apple orchards. Within ten miles of the campus there are two state parks and four lakes. The largest of the lakes is Crab Orchard Lake, four miles east of Carbondale. It has a shoreline of 125 miles, and it is frequented by students for swimming, water skiing, boating, fishing, picnicking, camping, and hunting. Within the confines of the campus itself is the University's own Lake-on-the-Campus with facilities for swimming, boating, fishing, and picnicking.

The campus is undergoing extensive expansion. Approximately seventy large permanent buildings and several hundred small temporary buildings now comprise the campus. Additional buildings now under construction or recently completed include:

Life Science Building	Humanities Building
General Classroom Building	Advanced Physical Science
Physical Science Building	University Center Addition
Communications Building-Stage II	Recreation Complex
Residence Units: University Park, Evergreen Terrace	

Southern Acres, the campus of the Vocational-Technical Institute, is located seven miles east of Carbondale, and includes classrooms, library, and shop facilities for its academic program, in addition to residence halls. The part of its program related to aircraft technology is located adjacent to the Southern Illinois Airport. Several of its temporary buildings are being replaced by buildings representing the first stage of a master plan for the campus.

The Little Grassy Lake Facility consists of nine square miles of land adjacent to Little Grassy Lake and approximately seventy permanent structures. Although the programs conducted at Little Grassy are primarily devoted to instruction and training in recreation and outdoor education, many units of the University utilize its facilities.

Publications

A list of other issues of the *Southern Illinois University Bulletin* is given in this catalog immediately preceding the table of contents. For additional information write to the dean or director of the program or to Central Publications.

DIVISION OF TECHNICAL AND ADULT EDUCATION

IN SEPTEMBER, 1953, THE Division of Technical and Adult Education was established by action of the Board of Trustees, with the appointment of a regularly constituted academic dean. From 1950 to 1953, some types of instruction had been given under different administrative responsibility.

The responsibilities of the division are two-fold:

1. To administer the Vocational-Technical Institute as an agency in advisement and instruction of students enrolling in vocational and technical credit courses leading toward the two-year Associate in Business, Associate in Art, or Associate in Technology degree.

2. To administer noncredit adult education courses taught by staff of the Vocational-Technical Institute, other academic units of the University, and qualified persons successfully active in industry, business, and the professions.

Both functions of the division have experienced rapid growth due to the offerings which have met particular occupational training needs in business, merchandising, technical, and semi-professional fields. The Vocational-Technical Institute's programs are carefully planned to meet changing demands in business and industry. Most of the adult education courses result from cooperative planning with local and association educational committees.

Vocational-Technical Institute

The Vocational-Technical Institute was established in September, 1952, to provide college-level programs of instruction of shorter duration than the usual four-year programs. The institute's programs qualify students for employment at the semi-professional and technical level in industry, the allied health occupations, and business. A combination of technical courses and general education courses is included in each curriculum to provide a comprehensive preparation for occupational competence.

Scientific and technical changes have increased the possibilities for employment at the technician's level. For every professional person, industry and business require two to seven properly trained technicians.

The Vocational-Technical Institute's campus (Southern Acres) is located about ten miles east of Carbondale and five miles west of Marion on old Route 13. Buildings in the administration area of the former Illinois Ordnance plant have been remodeled, and additional buildings have been added for instruction. See also Special Services, page 6.

Degrees and Certificates

The Vocational-Technical Institute offers two-year programs for high school graduates. Each program leads to one of the following three associate degrees:

- Associate in Art

- Associate in Business

- Associate in Technology

Graduates of the Vocational-Technical Institute are trained to meet the continually increasing demands of industry and business for technicians in a variety of areas. While a technician is capable of performing

certain skilled tasks, he must also be capable of applying basic problem solving techniques. He must know how to read and comprehend technical material. He must be able to speak and write with clarity and understanding. He must know something of the world of business and economics. He must be able to understand and get along with people.

In order to qualify for the Associate in Technology degree, the Associate in Business degree, or the Associate in Art degree, a student must have a required amount of general instruction, which is provided by the General Studies program. Requirements for general courses vary from field to field. Each program prescribes its required courses. Any General Studies course may be taken as an elective. Each candidate for an associate degree must have a C average. This average is required for the credit made at the University as well as for the total record.

The institute's programs should not be confused with the first two years of any of the four-year programs offered by other academic units of the University. The extent to which credit earned in the various programs of the institute may be transferred to any of the four-year programs, or vice versa, will be determined by the Registrar in cooperation with the deans of the appropriate academic units. Transferable credits will be evaluated on the basis of the student's previous course of study in relation to the requirements of his desired new program.

Student Organizations and Activities

Students share in the government of the institute under the supervision of the administration. The Student Council sponsors activities and makes recommendations on school matters to the director. Student activity is supplemented by various student clubs with local and national affiliations. Each of these student organizations offers further development of character, professional ethics, leadership, and wholesome social recreation.

Recreational facilities are available at Southern Acres for indoor and outdoor activities. Crab Orchard Lake, which is less than a mile away, and Lake-on-the-Campus, at Carbondale, afford excellent facilities for swimming, fishing, boating, and picnicking.

Adult Education

Adult education has become not a "making up," but a "keeping up" and "going ahead" factor in American society. "All men by nature desire to know," wrote Aristotle, and to help meet this desire the Division of Technical and Adult Education offers a variety of noncredit courses.

In most cases, there are no minimum previous educational requirements for these adult courses, and admission to the University as a registered student is not required. However, certain registration procedures are observed. Persons planning to enroll in the adult program who do not already have a social security number should obtain one since it is used in registration.

The Division of Technical and Adult Education attempts to meet the fundamental needs of the adult in expanding communication skills, developing the willingness and ability to change in a changing world, improving human relations, increasing concern and participation in the responsibilities of citizenship, building personal growth, and creating new interests and more productive use of leisure time.

A number of courses are offered regularly on the Carbondale and Vocational-Technical Institute campuses and in cooperation with local secondary schools because of continuing interest by large numbers of people. Others of particular timeliness or specific interest are offered as often as and in locations where need is demonstrated. In general, any interested group may request assistance in the development of specific courses to meet its needs.

Adult education courses are developed and implemented in cooperation with representatives of business, industry, and the professions. Representatives of the Division of Technical and Adult Education meet with representatives of the group which desires a course to plan, organize, and activate the subjects to be offered, to select outstanding instructors, and to decide meeting time and place.

As the industrial community has grown in recent years, creating a need for more and better trained management personnel, the Division of Technical and Adult Education has developed an adult program in industrial management. Representative courses are Practical Psychology for Supervisors, Industrial Report Writing, Quality Control, Labor Management Relations, Dielectric Heating, and Metallurgy. Persons working toward the Certificate in Industrial Management complete five courses in a required core curriculum, plus three chosen from among a variety offered to allow application of the program to specific areas of interest. The program can be completed in two years with one or two evenings of study a week.

Adult classes meet one evening a week in most cases for a term of ten or 12 weeks. No correspondence courses are offered by the division. The teaching staff is drawn from business, industry, the professions, and the University's academic units. Tuition and supply fees are minimal. Persons successfully completing adult courses are awarded certificates, and a permanent record is kept by the University so that students may provide information on their adult courses to prospective employers if they wish.

The Division of Technical and Adult Education cooperates with an increasing number of associations representing business, industry, personal service, and public utilities in offering a wide variety of conferences, workshops, short courses, and seminars tailored to the specific needs of the group. Included in this type of program are:

Illinois Bankers School	Management Workshops for Nursing
Funeral Service Seminar	Home Administrators
Public Librarians Workshop	Police Training Program
School Bookkeepers Workshop	Hot Line Maintenance School for
School of Advanced Cosmetology	Electric Companies and
School Custodians Workshop	Cooperatives
School Lunch Workshop	Management Seminars
Secretarial Seminar	

Among typical courses offered on a continuing basis are languages, typing, shorthand, tailoring and sewing, oil painting, high school review, apprentice programs for the crafts, bookkeeping and calculating machines, and data processing.

A schedule of adult courses conducted on the Carbondale and VTI campuses is issued quarterly. Persons who wish to receive this schedule may be added to the mailing list by submitting their name, address, and social security number to the Office of Adult Education.

SPECIAL SERVICES

Students at the Vocational-Technical Institute enjoy the benefits and privileges available to other students of the University. Meals may be purchased at the cafeteria at the Vocational-Technical Institute and at the University Center at Carbondale. Regular facilities of the Health Service are supplemented by a local doctor, a nearby hospital, and a nurse whose headquarters are at the Vocational-Technical Institute. Textbooks are issued at the Vocational-Technical Institute at the beginning of each quarter through the Textbook Service and are returned at the end of the quarter. Supplies and supplemental educational materials may be purchased at the University Book Store. The Placement Service, which is in contact with industrial, business, and professional groups, arranges interviews for graduates and provides credentials to prospective employers. Assistance from the Placement Service is available at the Vocational-Technical Institute. A branch of the University Libraries operates at the institute, and the facilities of Morris Library at Carbondale are available. Hourly bus service between the Vocational-Technical Institute and Carbondale is free for students and faculty.

Housing

A student desiring University Housing at Carbondale or at the Vocational-Technical Institute should apply to Housing Business Services in Carbondale as early as possible because contracts are awarded in order of receipt of applications. Housing applications for an academic year are accepted anytime after September 1 of the preceding year. However, housing contracts are not awarded until admission requirements have been satisfied. In order to assure favorable housing conditions, students are advised to complete their admission processing early.

Student Work Program

The Student Work Program serves two major purposes: It provides financial assistance in the form of part-time employment; and it provides work experience which relates, if possible, to the student's academic program. Students employed on campus are expected to participate in training programs. The kind of training and length of the programs are determined by the employing unit in cooperation with the student work office.

The Student Work and Financial Assistance Office, which is the administrative office for the program is a referral agency and cannot promise jobs to students. However, every effort is made to place capable, needy students in either on-campus or off-campus jobs.

An application for student employment, or information about work possibilities, may be obtained by writing to the Student Work and Financial Assistance Office, Southern Illinois University, Carbondale, Illinois 62901.

Student Financial Assistance

The financial assistance program at Southern Illinois University has been

organized so that it may function as an integral part of the total educational experience of the student. Insofar as possible, an attempt is made not only to assist needy and deserving students with their financial obligations through the program but to contribute to their general development and learning experience.

The program of financial assistance includes scholarships, awards, prizes, grants-in-aid, and student loan funds. As a part of the award program, the Board of Trustees of the University has established tuition awards known as Southern Illinois University Scholarship and Activity awards. To apply for awards, entering freshmen are required to have ranked in the upper half of their graduating class and to have achieved a minimum comprehensive high school average of *C*; enrolled students are required to have a minimum average of *C* for all college work. For scholarships available to upperclassmen, a minimum average of *C* is required for all college work; for some scholarships higher averages are required.

The comparative limitations of such forms of assistance in terms of both number and amount available make it inadvisable for an undergraduate to expect to meet all university expenses from such sources. The family, including parents, friends, and relatives, is the primary resource for a student's college costs. The student himself normally supplies one-third to one-half of his finances through work during the summer or during school, and through his savings. The University assists in making up the difference between college costs and the student's sources through scholarships, awards, and loans.

Students desiring to apply for financial assistance must be officially admitted and should request an application for financial assistance from the Student Work and Financial Assistance Office. In general, students should apply for assistance between January 1 and March 15 prior to the September when assistance is needed.

ADVISORY COMMITTEES

In order that the Vocational-Technical Institute programs be kept up-to-date and responsive to the needs of business and industry, advisory committees have been formed to assist in the evaluation of these programs and to recommend improvements in curriculum, course content, and laboratories. Each committee meets at least once a year and when circumstances demand. The members are selected from national, state, and local levels on the basis of leadership in their fields and/or opportunities they have to observe the work of graduates of the Vocational-Technical Institute. In many cases, members serve as visiting lecturers and bring directly to the students the latest developments in their respective areas of specialization. They also forecast trends affecting employment and specific areas of training.

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John Nicol, Industrial Engineer, Union Carbide Corporation, Nuclear Division, Paducah, Kentucky

Lavern W. Olson, Engineering Manager, Ingersoll Milling Machine Company, Rockford, Illinois

Burt Snyder, Chief Engineer, Argonne National Laboratory, Argonne, Illinois

Nick Veracalli, Drafting Configuration Control Supervisor, Olin Mathieson Company, Ordill, Illinois

Mortuary Science

James Couch, c/o Couch Funeral Home, 736 West North Avenue, Chicago, Illinois

William Froelich, Jr., c/o Froelich Memorial Home, 207 East Fifth Street, Gridley, Illinois

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Joseph McCracken, c/o McCracken Funeral Home, 308 East Second Street, Pana, Illinois

Joseph W. Schilling, c/o Schilling Funeral Home, 1301 Charleston Avenue, Mattoon, Illinois

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Physical Therapy Assistants

Miss Evelyn Bachmann, Physical Therapist, St. Elizabeth Hospital, Belleville, Illinois

Mr. David Collins, Physical Therapist, St. Mary's Hospital, Decatur, Illinois

Mrs. Virginia Daniels, Chairman, Committee on Supportive Personnel, State Chapter, Chicago, Illinois

Mr. Jack Edmundson, Administrator, Doctors Hospital, Carbondale, Illinois

Mr. Alden Hall, Administrator, Clinical Services, Southern Illinois University, Carbondale, Illinois

Dr. Harold Kaplan, Chairman, Department of Physiology, Southern Illinois University, Carbondale, Illinois

Mrs. Mary Liedloff, Physical Therapist, Doctors Hospital, Carbondale, Illinois

Sister Donna Marie, Physical Therapist, St. John's Hospital, Springfield, Illinois

Dr. E. L. Sederlin, Regional Health Office, Carbondale, Illinois

Miss Elizabeth Wood, Director, Northwestern University Physical Therapy School, Chicago, Illinois

Printing Technology

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Ed Soldner, Manager, Republican-Leader, Inc., Marion, Illinois

Dennis Schutte, Manager, Varityper Corporation, 2735 Hampton Avenue, St. Louis, Missouri

Edward A. Taylor, Editor and Publisher, Pulaski Enterprise, Mounds, Illinois

Secretarial

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Tool and Manufacturing Technology

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Edward Lach, Asst. Superintendent of Central Shops, Argonne National Laboratory, Argonne, Illinois

Lavern W. Olson, Engineering Manager, Ingersoll Milling Machines, Rockford, Illinois

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Water Resources Technology

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2 / Academic Requirements and Procedures

Admission Policies, Requirements, and Procedures

IN ORDER TO attend classes at Southern Illinois University, one must gain official admission to the University and must complete the registration process, which includes specialized testing, advisement, sectioning, and payment of fees.

Applications for admission to the University are accepted any time during the calendar year but should be initiated in ample time to permit the necessary work of processing to be completed.

Admission of Freshmen

To be eligible for admission, effective with the 1969 summer quarter, a person must be either a graduate of a recognized high school (graduates of non-recognized high schools may be admitted by the Director of Admissions by examination), or must have passed the General Educational Development Test. A person seeking admission through the latter procedure will be considered only after his high school class would have graduated.

In-state high school graduates who rank in the upper half of their graduating class based upon class rank or by score on the University entrance examination are eligible for admission to any quarter. Graduates who rank in the lower half of their graduating class are admissible to the summer quarter on a conditional basis.

Out-of-state high school graduates who rank in the upper forty percent of their graduating class based upon class rank or by score on the University entrance examination are eligible for admission to any quarter. Out-of-state high school graduates who rank in the upper half of their graduating class, but not the upper forty percent, are admissible to the summer quarter on a conditional basis.

Both in-state and out-of-state students admitted to a summer quarter on a conditional basis can qualify for fall quarter attendance by carrying a minimum academic load of eight quarter hours and completing them with at least a C average. Otherwise, the next earliest time that they might enter will be the following summer and under the same conditions.

Students meeting the standards making them eligible for admission to any quarter will be considered for admission after completion of the sixth semester of high school. Students who do not meet these standards will be considered for summer quarter admission based upon completion of the seventh semester of high school work.

University entrance examination scores must be furnished by students prior to their being admitted to the University. Currently the ACT (American College Testing Program) is the required test.

All admissions granted students while in high school are subject to the completion of high school work and maintenance of rank upon which the admission was made.

A student entering the University as a freshman is enrolled in the General Studies Division unless he is being admitted to the Vocational-Technical Institute.

Admission of Transfer Students

For academic purposes an undergraduate applicant for admission to Southern Illinois University is considered to be a new freshman provided he presents fewer than twelve quarter hours of graded work for transfer consideration, otherwise he is considered to be a transfer student.

Effective with the 1969 summer quarter, students applying as undergraduate transfer students from four-year institutions are admissible to any quarter provided they had a 3.00 grade point average at the institution of last attendance. Students who do not have a 3.00 grade point average at the institution of last attendance but are eligible to continue at that institution will be considered for admission on probation for summer, winter, and spring quarters. Those who are not eligible to continue at their last institution will be considered for admission on probation for the summer and spring quarters provided there has been an interruption of schooling of at least two quarters duration and there is tangible evidence that additional education can be successfully completed by the student.

In the event a student has attended more than one institution, the institution of last attendance is considered to be the one last attended on a full-time basis for at least one quarter or semester. Twelve hours is considered as full-time for this purpose.

Students applying for admission from two-year institutions are subject to the same conditions specified above for transfer from four-year institutions. However, a student who did not meet the University's admission requirements to enter as a freshman from high school during the regular year and who elected to enter a two-year institution will not be considered for admission as a transfer student until he has completed one year of attendance at the two-year institution. This means an academic year or 48 quarter or 32 semester hours. Also, students who have graduated with an associate degree in a baccalaureate-oriented program from a two-year institution may enter Southern Illinois University any quarter without regard to their average provided they have not taken additional college-parallel work since their graduation. If they have, their admission will be considered from the same standpoint as a student transferring from a four-year institution.

Transfer students who have been suspended for any reason other than academic failure must be cleared by the Dean of Students office before admission will be granted by the Director of Admissions.

Transfer credit is evaluated for acceptance towards University and General Studies requirements by the Registrar's Office after the admission decision has been made. The evaluation toward satisfaction of specific curriculum requirements is done by the department or agency directing the specific curriculum.

The general principles which govern the acceptance of transfer work are as follows:

1. All transfer work is entered on the student's official record of academic work maintained in the Registrar's Office and continues to be applied to the student's total academic record.

2. Not more than one-fourth of the work accepted from each institution for application towards the number needed for graduation may be of *D* quality. Any *D* work not so accepted, however, may be used to satisfy general University, academic unit, or specific program course requirements when applicable.

3. Credit transferred on or after June 1, 1967, from an accredited two-year institution is limited only by the provision that the student must earn the last 48 quarter hours required for the degree at Southern Illinois University or at any other approved four-year institution, except that the student must meet the residence requirement for a degree from the University. These requirements can be found elsewhere in this catalog. Conditions governing the acceptance of credit from four-year higher educational institutions also apply to acceptance from two-year institutions.

Admission of International Students

In general, international students must meet the same academic standards for admission as those required of native students. As there is considerable variation between educational systems throughout the world, precise comparative standards are not always available. Therefore, international students are selected upon the basis of the excellence of their former academic work, personal recommendations of former teachers and colleagues, the judgment of the University as to whether it has academic programs of benefit to the student, and the student's financial arrangement for his support during the normal period of time required to reach the objectives of his study. Undergraduates who have had previous schooling in the United States are required to submit scores from the American College Testing Program examinations if they have accumulated less than one full year of college credit.

International students interested in making application to the Carbondale Campus of Southern Illinois University should address their inquiries to the Admissions Office. At that time they will receive a copy of the *Information for Prospective International Students* booklet which outlines in greater detail information about the University and admissions procedures of particular interest to international students.

Admission of Former Students

A former student of Southern Illinois University not in attendance on a campus at the close of the quarter preceding application for admission must apply to the Admissions Office for re-entrance prior to registration.

A former student who is not in good standing must clear his status before the Admissions Office will prepare his registration permit. It is advisable for such student to initiate re-entrance clearance with the Admissions Office early so that all inquiries may be answered and so that the applicant can find time to complete any requirements that may be imposed upon him. (See Scholastic Probation and Suspension System elsewhere in this bulletin for further information.)

Applying for Admission

A student may start his admission process at any time. High school

students who rank sufficiently high to be eligible for admission to any quarter are urged to initiate action during their seventh semester in high school. Others may apply at that time but decision will be delayed until after the end of the seventh semester. Transfer students should initiate the process during the last semester or quarter of attendance at the previous school if they plan to transfer without interruption. Students who delay their admission processing until the start of the quarter which they wish to enter, while they will be admitted if eligible, are subject to late registration fees and may be confronted with having to accept less desirable class schedules than would otherwise be the case.

The admission process is started by writing the Admissions Office, Southern Illinois University, Carbondale, Illinois 62901, indicating a desire to apply and requesting admission materials. The materials that are sent contain the application and related forms that need to be completed along with procedural instructions. Information is also included relative to housing and financial assistance.

Documents Required for Admission

Among the items required by the University before admission is completed are the following:

1. The completed application form from the student.
2. Transcripts of previous educational experience. For the high school student the request is for two copies of the high school transcript. For the transfer student the request is for an official transcript from each institution previously attended sent directly to this University from the previously attended school. In addition, transfer students presenting fewer than 48 quarter hours (32 semester hours) of completed work must provide a copy of their high school transcript.
3. University entrance examination scores. All students applying for admission directly from high school and all transfer students who have completed fewer than 48 quarter hours (32 semester hours) must have their official ACT scores sent to the University from the American College Testing Program, Box 451, Iowa City, Iowa 52240.
4. Physical examination form. Each new student admitted as a full-time undergraduate student is requested to have a physical examination performed by a private physician recorded on the form provided by the University. This must be done prior to registration in the University. The completed form is to be sent directly to the University Health Service. In case of a religious belief which is in conflict with the plan, special arrangements may be made with the director of the University Health Service.

Applications for housing and financial assistance are separate from the admission process and directions relating thereto are contained in the brochures on these subjects which the students receive when they request admission materials.

Orientation, Advisement, Registration

Through a carefully designed system of orientation, academic advisement, and registration the University attempts to assure entering students an efficient and effective introduction to the University prior to the time

they start class attendance. The more extensive program is provided for those students entering during the fall quarter while more abbreviated activities are in operation for the other quarters.

For many years the University has used an advanced registration system through which all continuing students and most new students are expected to be academically advised and registered for a quarter well before its actual start. The advance registration period for fall quarters ordinarily runs from the middle of April through the end of May and then from the early part of July to the latter part of August.

During the July-August period three days each week are set aside for new freshman and transfer student orientation, advisement, and registration. Students are invited to have their parents accompany them so that they too may secure a better understanding of the University and its operation than might otherwise be the case. The orientation program on these days is of necessity an introductory type in which questions about admission, housing, financial assistance, etc., can be answered. Later, at the start of the fall quarter new students participate in three days of orientation activities during which time they receive a well rounded introduction to university life.

Starting in May and extending through June the University's Admission Office contacts new students admitted to arrange appointment dates for them to come to the campus. Through this process only the number of students that can be efficiently handled are involved each day. Students who cannot come to the campus during the summer or who delay applying for admission beyond the advance registration period may register at the start of the fall quarter but are required to come to campus a few days before those who have registered during the summer period. New students who have not been advised and registered by the time the student orientation period starts at the beginning of the fall quarter are considered to be late registrants and are subject to a late fee payment.

Similar procedures are followed at the start of each of the other quarters. Admitted students are kept informed of orientation, advisement, registration procedures, and the times when they occur by the Admissions Office in cooperation with the Student Activities Office. The latter office is the University's administrative agency that assists the large number of volunteer students who actually operate the New Student Days activities at the start of each quarter.

Academic Advisement

Academic advisement is administered by the academic units. Each unit employs a selected group of trained advisers devoting part-time directly to this function. They operate under the supervision of a chief adviser who is responsible to the dean of the academic unit.

The University accepts the importance of the academic advisement function. Insistence on receipt of transcripts and ACT scores prior to admission serves not only to determine admission but later provides suitable educational information to the advisers upon which decisions can be made relative to the proper courses to advise the students to take. On the basis of this information the advisers can make intelligent decisions relative to students who should receive advance standing in courses or who should be urged to take proficiency examinations in courses about which they appear to be already well informed.

Registration

Registration for any session of the University is contingent upon becoming eligible for registration. Thus an advance registration, including the payment of tuition and fees, is considered to be invalid if the student is later declared to be ineligible to register due to scholastic reasons. The enrollee may also be considered ineligible to register because of financial or disciplinary reasons if this is certified to the registrar by the appropriate University office.

Detailed information about the dates and procedures for advisement and registration appears in each quarter's Schedule of Classes, which is available from Central Publications.

There are several basic principles governing registration for classes as follows:

1. Students are officially registered only for those courses which appear on their schedule of classes. Changes therefrom can be made only through the processing of an official program change.
2. Registration ends at the close of the first week of school. This includes the registration into new courses or the changing of sections through the program change process.
3. A student may not drop a course merely by stopping attendance. To do so results in an ABS grade. A course may be dropped through the program change route through the first four weeks without a letter grade being assigned. Thereafter, a passing or failing grade will be assigned in keeping with the student's status at the time of withdrawal.
4. There is a terminal date near the end of each quarter after which program changes or withdrawal from school are not permitted except under exceptional conditions. This date is usually two weeks before final examinations begin. The specific date appears in each quarter's Schedule of Classes.

Withdrawal from the University

Withdrawal from the University is initiated by contacting the Counseling and Testing Center in the Dean of Students office. This should be done in person if a student withdraws after school has started and he is on campus. If he is unable to come to campus he may write the Dean of Students office asking that they process a withdrawal for him.

A student who advance registers, including the paying of fees, and who then finds that he cannot attend school must process an official withdrawal the same as do those who withdraw after school starts. In this case the process is the same as outlined in the paragraph above. A student who advance registers but does not clear his fees by the announced deadline date is automatically cancelled.

Refer to the section *Payment and Refunding of Fees* later in this chapter for information about the refunding of tuition and fees when withdrawing from the University.

Tuition and Fees

The types and amounts of tuition and fees charged students are established by the Board of Trustees and are subject to change whenever con-

ditions make changes necessary. Listed below are the tuition and fees that will be assessed a student per quarter effective with the 1969 fall quarter:

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident	\$22.00	\$45.00	\$67.00
Tuition Fee—Out of State Resident	(69.00)	(137.00)	(206.00)
Student Welfare and Recreation			
Building Trust Fund Fee	5.00	10.00	15.00
Book Rental Fee	3.00	6.00	8.00
Student Activity Fee	3.50	7.00	10.50
University Center Fee	5.00	5.00	5.00
Athletic Fund Fee	3.00	6.50	10.00
<i>Total</i> —Illinois Resident	\$41.50	\$79.50	\$115.50
<i>Total</i> —Out of State Resident	(88.50)	(171.50)	(254.50)

In addition to the above fees, a student is subject to certain other charges under the conditions listed below:

1. A late registration fee, which is \$2.00 for the first day and which increases \$1.00 each day to a maximum of \$5.00 when a student registers after the regular registration period has ended.

2. A \$2.00 program change charge whenever a student changes his program from the one for which he originally registered, unless the change is made for the convenience of the University.

3. A graduation fee of \$17.00.

Students holding valid state scholarships are exempt from the above tuition and fees to the extent provided by the terms of the specific scholarship held. An Illinois State Scholarship, unless an honorary one, covers all of the charges except the late registration and program change fees. An Illinois State Teacher Education Scholarship, an Illinois Military Scholarship, an Illinois General Assembly Scholarship, or an Illinois County Scholarship exempts the student from the paying of tuition, the student activity fee, and the graduation fee.

The student activity fee includes the fees for limited hospitalization, entertainment, athletics, student publications, and other privileges.

Faculty members and university civil service employees taking courses are not charged tuition and activity fees. However, they pay all other appropriate fees.

Extension course fees are \$6.00 per hour plus a \$1.05 book rental fee per course.

Adult education course fees are computed on the basis of approximately sixty cents per contact hour.

Other charges which a student may incur are those for departmental field trips, library fines, and excess breakage. Also, a student taking a course involving use of materials, as distinct from equipment, will ordinarily pay for such materials.

A student registering for courses on an audit basis pays the same tuition and fees as though he were registering for the courses for credit.

A student is entitled to a free transcript of his university record each time he has added academically to his record through work taken at this University, provided he has fulfilled all his financial obligations to the University. There is a charge of \$1.00 for each additional transcript.

PAYMENT AND REFUNDING OF FEES

Fees are payable quarterly during the academic year. A student who registers in advance receives a fee statement and may pay either by mail or in person at the Bursar's Office, by the deadline date, in accordance with instructions accompanying the fee statement. Otherwise his advance registration is cancelled and he must register again later. A student who registers at the start of a quarter must pay fees at the time of registration.

Refunding of fees is possible only if a student has withdrawn from school, officially, within the first two weeks of a quarter and only if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration day. This means that for quarters starting on a Monday the withdrawal from school must have been officially made within the first two calendar weeks of the quarter and the refund application received by Monday of the third week. No refunding of fees is made for a withdrawal occurring after the first two weeks. The specific deadline dates for each quarter appears in that quarter's Schedule of Classes.

A student who processes a program change which places him in a different tuition and fee category than the one for which he originally registered will be assessed additional tuition and fees when appropriate. If the change places him in a lower tuition and fee category he may apply for the appropriate tuition and fee refund provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University are eligible for a refund. This is during the first two weeks of a quarter. Application for a refund in this case is made at the Registrar's Office.

Student Residency Regulations

Regulations defining the residence of students for purposes of registration in Southern Illinois University are as follows:

1. Evidence showing the residence of every applicant for admission to the University must be submitted to the Registrar at the time of application for admission, and resident or nonresident fees shall be assessed on the basis of evidence appearing in the Registrar's records.

2. In all cases where the records indicate that the student's home is outside the state of Illinois, the nonresident fee shall be assessed. A student who takes exception to the ruling may file a claim for a refund, but this must be submitted to the Registrar within 10 days of the opening date of the quarter for which the charge was made.

3. In the case of a student who is a minor, the residence of the parent, or if the student has no parent, the guardian of this person, shall govern unless there is proven to have been complete emancipation of the minor from his parents or guardian and he has established residence in the state of Illinois.

4. Any student, adult or minor, whose parents have established a bona fide residence in the state of Illinois will be regarded as a resident for registration purposes; except that an adult student who has established a residence on his own account outside of the state must conform to the terms set forth in regulation 6 to be classified as a resident.

5. A wife is classified as a resident for registration purposes if her hus-

band is a bona fide resident of the state of Illinois preceding and at the time of her registration.

6. An adult student, whose parents are deceased or whose parents reside outside the state, to be considered a resident of Illinois for purposes of registration must be a bona fide resident of the state for three months preceding the beginning of any quarter for which he registers at the University and must present evidence that he is self-sustaining and not under parental control.

7. An adult alien who holds valid immigration papers and is in the United States under an immigrant-type visa may qualify as a resident of the state for purposes of registration in the University if he has lived within the state for at least a period of twelve months next preceding the beginning of any quarter for which he registers at the University, subject to the provisions of rules 4 and 6.

8. Several factors will be considered in the determination of each individual case. Among the factors to be considered will be (a) location of draft board registration, (b) voting address, if any, (c) the degree of self-support of the student, (d) location of summer or vacation employment.

9. All cases of appeal shall first be referred to the Legal Counsel of the University. An appeal from the Legal Counsel shall be in accordance with University Statutes.

Note: In the above regulations an adult student is considered to be a male at least 21 years of age or a female at least 18 years of age.

Grading System

Grades are expressed in letters as follows:

GRADE POINTS PER HOUR

A, Excellent	5
B, Good	4
C, Satisfactory (this is intended to be the average grade)	3
D, Poor, but passing	2
E, Failure	1
P, Pass. Hours earned apply towards graduation but do not affect student grade point averages.	
F, Fail. Hours do not apply towards graduation and do not affect student grade point averages.	
W, Authorized withdrawal with no basis for evaluation established. Work may not be completed. Approved grading symbol only on graduate level except for unusual circumstances where an academic unit dean recommends a change in grade from ABS to W.	
WP, Authorized withdrawal with passing grade.	
WE, Authorized withdrawal with failing grade.	
WF, Withdrawal with failing grade. Does not affect student's grade point averages.	
ABS, Unauthorized withdrawal. Same as E for academic retention purposes.	
INC, Incomplete. Has permission of instructor to be completed.	

DEF, Deferred. Used only for graduate courses of an individual, continuing nature such as thesis or research.

S, Satisfactory. Used only for noncredit courses.

U, Unsatisfactory. Used only for noncredit courses.

AU, Audit. No grade or credit earned.

A grade given at the end of a course is final and may not be raised by additional work.

The grades of *A*, *B*, *C*, *D*, *E*, *WE*, and *ABS* are included in determining student grade point averages.

Authorized course withdrawals made through the program change process do not receive grades when made during the first four weeks of a quarter. Thereafter, authorized withdrawals receive *WP* for withdrawal with a passing grade, *WE* or *WF* for withdrawal with a failing grade, or *W* (for graduate students only) when no basis for evaluation has been established.

A *DEF* grade for course work of an individual nature such as research, thesis, or dissertation is changed to a completed grade when the project has been completed.

The grades of *S* and *U* are used to indicate satisfactory or unsatisfactory completion of a noncredit course.

A student registering for a course on an *audit* basis receives no letter grade and no credit. An auditor's registration card must be marked accordingly, and he pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for audit or credit may change to a credit status or vice versa through the official program change method during the first four weeks of a quarter. Thereafter the change may not be made.

The official record of a student's academic work is maintained in the Registrar's Office.

Unauthorized course withdrawals which are made through failure of the students to continue in attendance receive a grade of *ABS*. An *ABS* grade for a student may be changed to a *W* in unusual circumstances upon the recommendation of the head of the student's academic unit.

An *INC* grade may be changed to a completed grade within a time period to be designated by the instructor, not to exceed one year from the close of the quarter in which the course was taken; otherwise it remains as *INC* and is not included in grade point computation.

Courses in which *D*'s or *E*'s were received may be repeated and the last grade will be used in computing the student's grade point average. The repeating of a course does not remove the previous grade from the student's official academic record card. In following this system, the University is not committed to continue courses in effect in order that students may always repeat courses.

Special Grading System

Effective with the 1968 fall quarter and for a two-year experimental period

thereafter, the various undergraduate academic units at their discretion may permit their students to take a limited amount of course work on a Pass-Fail basis rather than on the regular letter grade basis. The experiences of the two-year period will determine whether this system will be continued beyond the 1970 spring quarter.

The purpose of the Pass-Fail grading system is to encourage students to broaden their education by undertaking intellectual exploration in elective courses outside their area of specialization without having to engage in grade competition with students specializing in those courses.

The present Pass-Fail grading system is governed by the following conditions:

1. A student with a 3.25 overall grade point average may participate with the permission of the dean.

2. A student may apply a maximum of 8 quarter hours of Pass credit towards graduation.

3. The Pass-Fail option is applicable only for elective courses in a student's program. He may not use it for courses satisfying General Studies, or concentration requirements. Should he later change his concentration, work previously taken on a Pass-Fail basis may, with concurrence of the department, be used in fulfillment of the requirements in the newly selected concentration.

4. Hours earned in Pass work will be added to a student's total hours passed but will have no effect on his grade point average. Unsuccessful completion of a course taken on the Pass-Fail basis will result in an *F* grade being recorded on the student's academic record card but will have no effect on his grade point average.

5. A student may change his course registration status from a Pass-Fail to a regular grading point and vice-versa during the first four weeks of a quarter only.

6. Each academic unit participating in the Pass-Fail system has a listing of courses in which registration is permitted on a Pass-Fail basis.

Scholastic Standing

The matter of scholastic standing is quite often of importance to a student both while in school and later when he presents a transcript of his educational record in support of his application for employment or additional schooling.

At the end of each quarter of his attendance a grade report is prepared for each student showing, in addition to the grades earned that quarter, what his scholastic standing is and what his grade point average is for the quarter, and for his over-all record. It is important that a student understands the University's system for computing grade point averages and the various grade point average requirements.

The University computes the student's over-all grade point average for all work taken whether at Southern Illinois University or elsewhere. A student who takes all of his collegiate work at Southern Illinois University will have only one over-all grade point average. A transfer student however will have a University grade point average and an over-all grade point average. These will, in most cases, be different.

The significance of the above can better be understood when studying the general baccalaureate degree requirements. A 3.00 (C) average is re-

quired for both the work taken at the University and for the over-all collegiate work, as well as for work in the student's area of concentration. Similarly, a student may be placed on scholastic probation or may be scholastically suspended either because of his record at the University or his over-all record.

In computing a student's grade point average all grades of *A*, *B*, *C*, *D*, *E*, *WE*, and *ABS* are included in determining the number of *calculated* hours. Corresponding grading symbols from other institutions are included in the same way. Each hour of these grades (1 hour of *A* is worth 5 grade points) is given its numerical grade points, and the total number of calculated hours is then divided into the total number of grade points to determine the student's grade point average. In the case of repeated courses only the hours of the last course and its grade are used except in those rare cases when the number of hours of a repeated course has been reduced since it was originally taken. In that case the repeated work affects only that number of hours of the originally taken work. For example, a student might take a four hour course and receive an *E*. He would then repeat the course but before he does the course might be reduced to a three hour course. If he then received a *C*, this would remove the effect of only 3 hours of the previous *E* work. The 1 hour of *E* would continue to affect the student's grade point average.

For academic classification purposes, a freshman is a student who has completed fewer than 48 hours; a sophomore, from 48 through 95; a junior, 96 or more.

Class Standing

Southern Illinois University requires a student to earn 192 quarter hours of acceptable credit in order to receive a baccalaureate degree. For academic classification purposes a freshman is a student who has completed fewer than 48 hours; a sophomore, from 48 through 95; a junior, from 96 through 143; and a senior, 144 or more.

University Recognition of High Scholastic Achievement

In recognition of high scholarship, a Scholastic Honors Day convocation is held each spring. A VTI student is eligible if he has a 4.50 grade point average and is attending full time. A transfer student must have earned the average indicated for work at Southern Illinois University only, as well as for the total record.

Graduating seniors possessing high scholastic averages are so recognized at commencement time by being graduated with honors. Students with 4.90 or higher averages receive highest honors; those with 4.75–4.89 averages receive high honors, and, those with 4.50–4.74 graduate with honors. This is recorded on the commencement program, on the student's academic record card, and on his diploma.

Scholastic Program Flexibility for the Student

Through various methods the University permits a student to develop flexibility in his college education so that he might follow a pattern different from that pursued by other students. It is possible for a student to by-pass some of the introductory General Studies courses through a combination of high school subjects and University entrance examination

scores. He may also receive credit for courses without having to take the high school course itself. Or the student who must interrupt his attendance on campus may find it possible to continue his educational training through extension or correspondence work.

High School Advanced Placement Program

Through the High School Advanced Placement Program a high school student who is qualified through registration in an advanced placement course in his high school or through other special educational experience may apply for advanced placement and college credit through the Advanced Placement Program of the College Entrance Examination Board, 475 Riverside Drive, New York, New York 10027. To receive credit, a person must earn the grade of 3, 4, or 5. Any interested high school student should write to the University's Admissions Office to learn the current listing of courses for which credit may be earned through this program.

Ordinarily, the maximum credit granted through advanced placement examinations is 16 hours. It is nonresident credit, does not carry a grade, and is not used in computing the student's average grade. Credit granted at another accredited college or university under this plan is transferable to this University up to a maximum of 16 hours. A student may appeal to his academic dean to be granted more than 16 hours.

Proficiency Examinations

Through its proficiency examination program the University recognizes the importance of providing encouragement for academically talented students. Such students are permitted to make application to demonstrate the mastery of certain courses through proficiency examinations. Applications are made at the Registrar's Office.

The following general rules govern the proficiency examinations for undergraduate credit.

1. Any student who feels qualified to take a proficiency examination is eligible to do so; students scoring in the top ten percent of ACT are particularly encouraged to avail themselves of this opportunity.

2. Credit not to exceed 28 hours toward an associate degree, including credit through the College Entrance Examination Board, Advanced Placement Program, may be earned through proficiency examinations. Credit will be nonresident.

3. Upon passing a proficiency examination in a course with a grade of *A* or *B* a student is granted course credit with grades and grade points appropriately recorded. His record will show the name of the course, the hours of credit granted, the grade earned, and a notation "credit granted by proficiency examination." The grade earned will count in the student's grade point average. Passing with a grade of *C* results in the student earning credit. His record will show the name of the course, the hours of credit granted, and a notation, "credit granted by proficiency examination." The grade earned will not be recorded and will not count in the student's grade point average. A grade of *D* or *E* on a proficiency examination results in no penalty to the student. He will not receive credit and his record will show nothing regarding the proficiency examination. However, the proficiency examination grade report form will be filed in the student's folder for reference purposes.

4. A student may not take a proficiency examination for the same course more than one time. Neither may he take a proficiency examination in a course in which he has previously received a grade.

5. No credit granted by proficiency examinations will be recorded until the student has earned at least 16 hours of credit of *C* grade or above in residence at Southern Illinois University.

Extension and Correspondence Credit

The University accepts credit earned through extension or correspondence programs towards an associate degree. A maximum of 48 quarter hours may be so earned. Of the total, not more than 24 quarter hours may be taken in correspondence work.

Southern Illinois University does offer a sizeable number of courses through its Extension Services. It does not operate a correspondence program. Correspondence work is accepted when taken from institutions which are regionally accredited if the grade is of *C* quality or better.

The University offers extension courses throughout Southern Illinois whenever (1) it is apparent that there is a need and potential enrollment to justify scheduling a class, (2) it is possible to obtain a faculty member to host the class, and (3) adequate laboratory and library facilities are available.

In general, extension courses meet one night a week with three-hour courses meeting 2.5 hours per session for 12 weeks, and four-hour courses meeting 16 weeks. Occasionally, four-hour courses will meet 12 weeks with four extra meetings being arranged for during the 12-week period.

Registration in extension courses is permitted during the first and second class meetings. Thereafter registration is permitted only with the approval of the dean of University Extension Services. A late registration fee of \$5 is also charged.

Students must have their social security numbers with them in order to complete their registration and must also be prepared to pay their tuition and fees. Tuition is \$6 per quarter hour of credit, and undergraduate students pay a \$1.05 textbook rental fee for each course taken by extension. Graduate students must buy their books or make other arrangements. The instructor may require the purchase of additional books or other materials. Students having valid scholarships issued through the state of Illinois do not pay the tuition charge but must pay the textbook fee. Illinois Military Scholarship holders must pay both the tuition and textbook rental fee.

A person may enroll for extension work on an audit basis provided facilities are available. He must receive permission of the instructor to do so and he must pay the same tuition and fees as though he were registering for credit.

Credit for Military Experience

Students who have served one year or more of active duty and who have received an honorable discharge may receive up to 6 hours of aerospace credit at Carbondale; service of six months to one year may result in 3 hours of freshman aerospace credit; less than six months of active service does not allow any college credit.

Credit will be accepted for USAF courses within the limitations enforced for extension and correspondence work. No credit is allowed for college-level G.E.D. tests. In evaluating credit possibilities based upon

formal service-school training programs, the recommendations of the American Council on Education as set forth in the U.S. Government bulletin, *Guide to the Evaluation of Educational Experiences in the Armed Forces*, are followed.

In order to receive credit for military service a veteran must present a copy of his discharge or separation papers to the Registrar's Office.

Scholastic Probation and Suspension System

A student who fails to maintain a satisfactory grade point average will be placed in categories other than Good Standing and may be required to discontinue attendance at the University for a period of time.

For a transfer student, the following scholastic standards apply *both to his academic record compiled only at this University and to his overall academic record.*

Scholastic Warning

A student who is in Good Standing will be placed in Good Standing-Scholastic Warning at the end of a quarter in which he fails to make a 3.00 grade point average provided he has calculated hours and an accumulative grade point average as follows:

1. Fewer than 96 calculated hours and less than a 3.00 grade point average.

2. 96 but fewer than 144 calculated hours and less than a 3.10 grade point average.

3. 144 or more calculated hours and less than 3.15 grade point average. He is returned to Good Standing at the end of a quarter in which he makes a 3.00 grade point average (or better) while on Good Standing-Scholastic Warning.

Scholastic Probation and Suspension

When a student on Good Standing-Scholastic Warning fails to make a 3.00 grade point average for a quarter, he is placed on Scholastic Probation and may be subject to suspension from the University for scholastic reasons at the end of any quarter in which he fails to earn a 3.00 grade point average while on Scholastic Probation.

To ensure that a student is making progress toward the 3.00 grade point average required for graduation he must maintain a progressively improving accumulative grade point average. At the end of each spring quarter a student who has accumulated the number of calculated hours listed below must also have obtained the corresponding accumulative grade point average:

<i>Quarter hours</i>	<i>Required average</i>
48- 95.5	2.60
96-119.5	2.70
120-143.5	2.80
144-159.5	2.90
160-	2.95

Otherwise he will be suspended from the University for scholastic reasons. He may seek reinstatement after a minimum of two quarters interruption but must furnish tangible evidence that additional education can be successfully undertaken.

Graduation Procedures

Presented here are the procedures that a student expecting to graduate must follow.

Every degree candidate *should* signify his intention to graduate by making application for graduation no later than the first week of his last quarter in attendance before the desired graduation date. Therefore, a person desiring to graduate in the June commencement who will be in school during the spring quarter should make application for graduation during the first week of the spring quarter. If he finishes his work during the preceding winter quarter, he should apply during the first week of the winter quarter. Similar arrangements should be followed by students completing their work during the fall quarter. The application forms are available in the Registrar's Office.

Every candidate for a degree *must* file written application with the Registrar's office not less than five weeks before the date on which the degree is to be granted. The application process includes the clearance of the graduation fee at the Bursar's Office prior to its filing with the Registrar's Office. He must order his cap and gown through the University Bookstore and should register with the Placement Service. A student must have a 3.00 grade point average before his application for graduation may be accepted.

In addition to completing the steps for application for graduation, the student is responsible for determining that he is meeting all graduation requirements and that he has no outstanding financial obligation to the University. To assure that a student is meeting the academic requirements, each academic unit provides a graduation check-up service through its academic advisement process, through which the satisfying of academic requirements can be verified. Even though the University does provide an academic check on graduating students, this is done primarily to be sure that it is graduating students who have met the requirements. The advising of the individual student as to his progress is a service provided him and does not relieve the student of his responsibility to make certain that he is meeting the requirements. Each student should check with his academic adviser as to the procedures he should follow in this matter as he approaches graduation.

Graduation exercises are held each year at the end of the spring and summer quarters. A student must attend commencement to graduate, unless he has obtained permission to be graduated *in absentia*. A student can request the latter either through the Registrar's Office or through his dean with the latter official making the decision.

The diploma is mailed to a student shortly after the commencement date. A student who has not met all academic requirements or who has a financial obligation will not be graduated even though he participates in the commencement exercises.

The University has a Graduation Appeals Committee whose function it is to hear a student's petition to be permitted to graduate even though he has not satisfied all University graduation requirements. The committee hears only those cases involving University requirement. Appeal relative to a concentration or academic unit requirement is through the appropriate administrative official.

Ordinarily, the Graduation Appeals Committee will give consideration to an appeal only if there is tangible evidence that the matter at issue is of an unusual nature and that it has resulted due to conditions beyond control of the student. Appeal is initiated through the Registrar's Office.

Related Academic Information

Unit of Credit

Southern Illinois University operates on the quarter system. Therefore, references to hours of credit mean quarter hours rather than semester hours. One quarter hour of credit is equivalent to two-thirds of a semester hour. One quarter hour of credit represents the work done by a student in a lecture course attended fifty minutes per week for one quarter, and, in the case of laboratory and activity courses, the stated additional time.

Academic Load

The normal academic load for a student is 16 hours. The maximum is 18 hours.

A student with a 4.25 grade point average or above for the preceding quarter may be allowed by the head of his academic unit to take as many as 21 hours. In no case may a student carry, or be credited with, more than 21 hours in any quarter.

A student on scholastic probation may not take more than 14 hours without approval of the head of his academic unit. A student employed full-time may not register for more than 8 hours.

The question of what constitutes full-time attendance is one that is often asked but for which there is no single over-all answer. For enrollment reporting purposes, 12 or more quarter hours distinguishes between full- and part-time attendance. However, a number of situations call for different hourly classifications. For example, a student registered for 11 hours pays full tuition and fees. Also, a student attending the University under a scholarship loan, or other type of program requiring full-time enrollment should check with the office administering the program to make certain that he is meeting the requirements of his specific program. For example, Public Law 358 (the new GI Bill) requires 14 hours on the undergraduate level for full time, 10 to 13 is considered three-quarter load, and 7 to 9 hours, half load. A student concerned with Selective Service on the undergraduate level needs to carry 12 hours to be considered full time. However, for Selective Service purposes, a student must also be making satisfactory progress. Therefore, he needs to accumulate 48 passing hours each year. Because of this, he must consider 12 hours as only a minimum load for full-time purposes with 16 hours per quarter as the average load he must maintain throughout the year. Further information on both Public Law 358 and Selective Service is available in the Registrar's Office.

3 / Academic Programs

GENERAL STUDIES REQUIREMENTS

GENERAL STUDIES courses augment the sophisticated technical courses offered within each of the programs. The General Studies courses help prepare the student to think logically and maturely, not only in his chosen vocation but also in any problem-solving situation. The art of communication is provided by English composition, business correspondence, technical report writing, and speech. The physical sciences include courses in physics, chemistry, and mathematics. The social sciences are represented by economics, government, and psychology, and the life sciences by biology, microbiology, and physiology.

Each program at the Vocational-Technical Institute is designed so that the graduate may gain not only technical skills but also those attributes which will help him fulfill a constructive role in our increasingly complex technological society.

ASSOCIATE IN ART DEGREE PROGRAMS

THE VOCATIONAL-TECHNICAL INSTITUTE offers the Associate in Art degree in the following fields of specialization:

Commercial Art
Corrections and Law Enforcement
Dental Hygiene

Library and Audio-Visual Technical Assistants
Physical Therapy Assistants

Candidates for the Associate in Art degree must complete the prescribed course of study with an overall grade point average of 3.00.

Commercial Art

This program in commercial art will enable the serious, career-minded student to meet the exacting demands of today's advertising field and industry. Only professional methods are taught in a professional atmosphere by practicing professional artists. Student laboratories, problem assignments, and work standards closely parallel those in the field in which the student, upon graduation, will be engaged.

Successful completion of this course of study culminates with the preparation of a portfolio of professionally acceptable samples which will enable the student to compete for the initial position, not only in his chosen field, but in most phases of commercial art.

Each student is required to purchase a small amount of basic equipment and supplies.

Candidates for the Associate in Art degree must complete the prescribed course of study with a minimum of 98 hours of credit.

FIRST QUARTER		Cr. Lec. Lab.		Technical Illustration		
Art Analysis	CA 101-3	3	0	Theory and Practice	CA 230a-7	0 8
Techniques—Theory and Practice	CA 125-10	0	17	Technical Writing	GEN 102-3	3 0
English Composition	GSD 101-3	3	0	FIFTH QUARTER		
SECOND QUARTER				Advertising and Story Illustration Theory and Practice	CA 210b-8	0 12
Advertising Design and Production	CA 130-10	0	20	Technical Illustration Theory and Practice	CA 230b-7	0 8
Behavior and Society	GSB 201c-4	4	0	Printing Theory and Practice	PT 235-2	0 4
English Composition	GSD 102-3	3	0	SIXTH QUARTER		
THIRD QUARTER				Advertising and Story Illustration Theory and Practice	CA 210c-7	0 12
Introductory Advertising and Story Illustration	CA 140-10	0	20	Technical Illustration Theory and Practice	CA 230c-6	0 8
Political Economy	GSB 211b-4	4	0	RECOMMENDED ELECTIVES		
Oral Communication of Ideas	GSD 103-3	4	0	Business and Technical Mathematics	GEN 105a-3	3 0
FOURTH QUARTER				Introduction to Physical Science	GSA 101a-4	4 0
Advertising and Story Illustration Theory and Practice	CA 210a-8	0	12			

Corrections and Law Enforcement

The curriculum in corrections and law enforcement is designed to provide overall understanding and appreciation of the problems involved in corrections, community service, and law enforcement and the means which society employs to deal with them. Particular attention is given to corrections and law enforcement functions, not only as they relate to crime and criminals but also as they relate to social order and justice.

Three options are offered: law enforcement, institutional service, and community services.

A minimum of 97 hours of credit must be completed for graduation.

Law Enforcement (option)

FIRST QUARTER		Cr. Lec. Lab.		SECOND QUARTER		
Man and His World	GSB 102a-4	4	0	Behavior and Society	GSB 201b-4	4 0
Political Economy	GSB 211a-4	4	0	Political Economy	GSB 211b-4	4 0
English Composition	GSD 101-3	3	0	English Composition	GSD 102-3	3 0
Introduction to Crime Control	CLE 103-4	4	0	Criminal Behavior	GLE 105-4	4 0

32 / Vocational-Technical Institute

Law Enforcement
and Community
Problems CLE 107-3 3 0

THIRD QUARTER

Behavior and Society GSB 201c-4 4 0
Oral Communication of Ideas GSD 103-3 4 0
Corrections and the Community CLE 113-3 3 0
Interpersonal Relations CLE 115c-3 3 0
Elective 3 to 4

FOURTH QUARTER

Criminology SOC 372-4 4 0
Public Administration GOVT 360-5 5 0
Technical Writing GEN 102-3 3 0

Principles of Investigation CLE 205-4 4 0

FIFTH QUARTER

Assessment in Criminology CLE 207-3 3 0
Social Control SOC 306-4 4 0
Law and Police Work CLE 211-3 3 0
Electives 6 to 7

SIXTH QUARTER

Specialized problems in Crime Control CLE 213-3 3 0
Supervised Practice in Criminology CLE 215-9
Police Administration CLE 221-3 3 0

Institutional Service (option)

FIRST QUARTER Cr. Lec. Lab.

Man and His World GSB 102a-4 4 0
Political Economy GSB 211a-4 4 0
English Composition GSD 101-3 3 0
Introduction to Crime Control CLE 103-4 4 0

SECOND QUARTER

Behavior and Society GSB 201b-4 4 0
Political Economy GSB 211b-4 4 0
English Composition GSD 102-3 3 0
Criminal Behavior CLE 105-4 4 0
Correctional Institution as a Social System CLE 109-3 3 0

THIRD QUARTER

Behavior and Society GSB 201c-4 4 0
Oral Communication of Ideas GSD 103-3 4 0
Corrections and the Community CLE 113-3 3 0

Interpersonal Relations Elective CLE 115a-3 3 0
3 to 4

FOURTH QUARTER

Criminology SOC 372-4 4 0
Public Administration GOVT 360-5 4 0
Technical Writing GEN 102-3 3 0
Group Work Techniques CLE 203-4 4 0

FIFTH QUARTER

Assessment in Criminology CLE 207-3 3 0
Social Control SOC 306-4 4 0
Law and Corrections CLE 209-3 3 0
Elective 6 to 7

SIXTH QUARTER

Specialized Problems in Crime Control CLE 213-3 3 0
Supervised Practice in Criminology CLE 215-9
Correctional Administration CLE 217-3 3 0

Community Services (option)

FIRST QUARTER		Cr.	Lec.	Lab.	Interpersonal Relations Elective	CLE 115b-3 3 to 4	3	0
Man and His World	GSB 102a-4	4		0				
Political Economy	GSB 211a-4	4		0	FOURTH QUARTER			
English Composition	GSD 101-3	3		0	Criminology	SOC 372-4	4	0
Introduction to Crime Control	CLE 103-4	4		0	Public Admin- istration	GOVT 360-5	4	0
					Technical Writing	GEN 102-3	3	0
SECOND QUARTER					Group Work Techniques	CLE 203-4	4	0
Behavior and Society	GSB 201b-4	4		0	FIFTH QUARTER			
Political Economy	GSB 211b-4	4		0	Assessment in Criminology	CLE 207-3	3	0
English Composition	GSD 102-3	3		0	Social Control	SOC 306-4	4	0
Criminal Behavior	CLE 105-4	4		0	Law and Corrections	CLE 209-3	3	0
Community Organization and the Offender	CLE 111-3	3		0	Electives	6 to 7		
THIRD QUARTER					SIXTH QUARTER			
Behavior and Society	GSB 201c-4	4		0	Specialized Problems in Crime Control	CLE 213-3	3	0
Oral Communication of Ideas	GSD 103-3	4		0	Supervised Practice in Criminology	CLE 215-9		
Corrections and the Community	CLE 113-3	3		0	Administering Community Service	CLE 219-3	3	0

Dental Hygiene

The dental hygienist is the only one of the auxiliary dental health team who works directly in the mouth like the licensed dentist, and, like the dental practitioner, she must obtain a license from the state in which she expects to practice. She is required to complete successfully a comprehensive practical and written examination given under the direction of the state board of dental examiners. Each student is required to provide her own uniform, caps, and equipment and to be responsible for instruments used. She should set aside about \$200 for these items, for they are not covered by the fees paid to the University.

The hygienist's area of service includes prophylaxis (scaling and polishing of the teeth), dental health education, X-ray examinations, serving as receptionist, administrative procedures, chairside assisting, and some laboratory techniques. All her work is done under supervision of a licensed dentist.

This program in dental hygiene is fully approved by the Council of Dental Education of the American Dental Association. Each applicant must take the Dental Hygiene Aptitude Test, which is offered three times yearly on the campus under the auspices of the Student Counseling and Testing Center. This is a prerequisite for admission to the program. Seven

34 / Vocational-Technical Institute

quarters of residence in sequence are required to complete the program.

Each student must accept and abide by the official "Rules and Regulations" of the program as approved and published by the Vocational-Technical Institute. After graduation and licensing, she is eligible to become a member of the American Dental Hygienists' Association which is closely associated with the American Dental Association.

A minimum of 114 hours of credit must be completed for graduation.

FIRST QUARTER		Cr. Lec. Lab.		FIFTH QUARTER		Cr. Lec. Lab.	
Orientation to Dental				Clinical Dental			
Hygiene	DH 130-2	2	0	Hygiene	DH 210a-5	1	12
Head and Neck				Dental Assisting	DH 213a-3	3	0
Anatomy	DH 132a-4	5	0	Dental Health			
Oral Basic Science				Education	DH 217-2	2	0
(Histology)	DH 135a-4	4	0	Clinical Dental			
Introduction to Chemistry				Roentgenology	DH 218b-2	2	0
(Inorganic)	GEN 115a-4	3	3	Oral Communication			
English				of Ideas	GSD 103-3	4	0
Composition	GSD 101-3	3	0				
SECOND QUARTER				SIXTH QUARTER			
Head and Neck				Clinical Dental			
Anatomy (Dental				Hygiene	DH 210b-5	1	12
Anatomy)	DH 132b-4	3	6	Dental Public			
Oral Basic Science				Health	DH 220-3	3	0
(Microbiology)	DH 135b-4	4	2	Clinical Dental			
Preclinical Dental				Roentgenology	DH 218c-2	2	0
Hygiene	DH 137a-4	2	4	Behavior and			
Introduction to Chemistry				Society	GSB 201b-4	4	0
(Organic)	GEN 115b-4	4	0	Elective	3		
THIRD QUARTER				SEVENTH QUARTER			
Oral Basic Science				Clinical Dental			
(Pathology)	DH 135c-3	3	0	Hygiene	DH 210c-5	1	12
Preclinical Dental				Dental Assisting	DH 213b-3	3	0
Hygiene	DH 137b-4	2	4	Dental Administration			
Dental Nutrition	DH 139-3	3	0	and Practice			
Principles of				(Ethics)	DH 216a-2	2	0
Physiology	GSA 301-4	3	2	First Aid	H ED 334S-4	4	0
English				Dental Administration			
Composition	GSD 102-3	3	0	and Practice	DH 216b-2	2	0
FOURTH QUARTER				RECOMMENDED ELECTIVES			
Dental Hygiene				Communicable			
Clinic	DH 209-5	1	12	Disease	H ED 300-3	3	0
Clinical Dental				Technical			
Roentgenology	DH 218a-2	2	0	Writing	GEN 102-3	3	0
Dental				Typewriting	SCR 101a-3	1	4
Pharmacology	DH 140-2	2	0				
Science of Dental Materials							
(Restorative)	DT 113b-3	3	0				
Behavior and							
Society	GSB 201c-4	4	0				

Library and Audio-Visual Technical Assistants

This program trains supporting staff for librarians to perform duties such as book processing, book repair and binding, interlibrary loan and acquisitions work, helping readers use catalogs, locating simple bibliographic information, answering directional questions, being in charge of departments (such as circulation or reserve collections), use and maintenance of audio-visual equipment, and preparation and use of instructional materials.

The technical assistant uses independent judgement and makes decisions within guidelines, but he consults with the librarian on unusual problems and works under general supervision of the librarian. In many positions, the library and audio-visual technical assistant supervises other employees. The degree of authority adheres to established library policies.

A minimum of 98 hours of credit must be completed for graduation.

FIRST QUARTER		Cr. Lec. Lab.		Cataloging of Non-Book Materials			LAV 111-4		
World Literature for Composition	GSC 103 ¹ -3	3	0				4	0	
English Composition	GSD 101-3	3	0	FOURTH QUARTER					
Library Technical Services (Order)	LAV 101-4	4	1	Behavior and Society	GSB 201c-4		4	0	
Library Technical and Public Service	LAV 103-3	3	0	Binding, Repair, and Mending of Library Material	LAV 201-4		3	6	
Introduction to Technology	LAV 105-2	2	0	Preparation of Graphic Materials	LAV 203-3		1	6	
SECOND QUARTER				Library Internship	LAV 209a-4		0	10	
Behavior and Society	GSB 201-4	3	0	Elective ²			3		
English Composition	GSD 102-3	3	0	FIFTH QUARTER					
General Reference	LAV 107-4	4	0	Library Internship	LAV 209b-4		0	10	
Organization of Library Materials	LAV 109-3	3	0	Library Technical Services (Serials)	LAV 211-4		4	0	
Automatic Data Processing Concepts	DP 107-3	3	0	Elements of Photography	LAV 213-3		1	6	
THIRD QUARTER				Elective ²			3		
Political Economy	GSB 211b-4	4	0	SIXTH QUARTER					
An introduction to Western Humanities	GSC 110a-3	3	0	Multimedia Techniques	LAV 215-3		2	2	
Oral Communication of Ideas	GSD 103-3	4	0	Library Internship	LAV 209c-4		0	10	
Library Public Service (Circulation Systems)	LAV 113-3	3	0	Seminar and Problems	LAV 217-3		3	0	
				Labor Management Relations Problems	GEN 232-4		4	0	
				Elective ²			3		

¹ Prerequisite: GSD 102-3 or appropriate ACT score.

² Students not passing the typewriting proficiency test are required to take a typewriting course.

Physical Therapy Assistants

This program provides training for physical therapy assistants, who will work in health service agencies. It enables students to gain knowledge and skill relating to physical therapy in classroom; laboratory, and clinical settings. The graduate, under the supervision of the registered physical therapist, will be able to administer such physical-therapy techniques as infra-red light, whirlpool baths, hot moist packs, diathermy, ultra-sound, paraffin baths, ultra-violet light, massage therapeutic exercise, gait training, activities of daily living, and hydrotherapy baths and to assist in record keeping and general physical-therapy housekeeping.

A minimum of 112 hours of credit must be completed for graduation.

FIRST QUARTER		Cr. Lec. Lab.		Child		
Introduction to Physical Science	GSA 101a-4	4	0	Psychology	PSYC 301-4	4 0
Behavior and Society	GSB 201b-4	4	0	Physical Therapy Orientation	PTH 100c-1	3 0
Music	GSC 100-3	3	0	FOURTH QUARTER		
Understanding (or Art Appreciation)	GSC 101-3	3	0)	Introductory Biology	GSA 201b-4	3 3
English Composition	GSD 101-3	3	0	Principles of Physiology	GSA 301-4	4 0
Methods of Teaching	PEM 100f-1	3	0	Human Anatomy	PHSL 300-4	4 0
Physical Therapy Orientation	PTH 100a-1	3	0	Physical Therapy Science Practicum	PTH 200-3	2 3
SECOND QUARTER				Psychology of the Aged	PTH 201-2	2 0
Introduction to Physical Science	GSA 101b-4	4	0	FIFTH QUARTER		
Behavior and Society	GSB 201c-4	4	0	Kinesiology	PE 303-5	5 0
English Composition	GSD 102-3	3	0	Diversified Crafts for Teachers and Recreational Leaders	TIED 303-4	
Swimming	GSE 101-1	0	2	Pathology	PTH 203-2	2 0
College Algebra	MATH 111a-5	5	0	Physical Therapy Science	PTH 205-3	3 0
Physical Therapy Orientation	PTH 100b-1	3	0	Medical Records	PTH 206-1	1 0
THIRD QUARTER				Elective	3	
Introductory Biology	GSA 201a-4	3	2	SIXTH QUARTER		
Oral Communication of Ideas	GSD 103-3	4	0	Massage	PTH 207-2	1 3
Restricted Physical Education	GSE 100-1	1	0	Therapeutic Exercise I	PTH 209-3	1 6
College Algebra and Trigonometry	MATH 111b-5	5	0	Physical Rehabilitative Techniques	PTH 211-3	2 3
				Therapeutic Modalities	PTH 213-3	2 5
				Pharmacology	PTH 215-3	2 2
				Elective	3	

SEVENTH QUARTER				Modern Literature:					
Clinical Internship Clinical Seminar	PTH 221-6	2	0	Form and Idea	GSC 209-4	4	0		
				Introduction to					
	PTH 222-2			Fiction	GSC 210-3	3	0		
				Technical					
				Writing	GEN 102-3	3	0		
				Chemistry	CHEM 115-5	4	4		
RECOMMENDED ELECTIVES									
Drama	GSC 203 or 201-3	3	0						

ASSOCIATE IN BUSINESS DEGREE PROGRAMS

TWO-YEAR PROGRAMS in various phases of business leading to the Associate in Business degree are designed to train young men and women for their initial jobs in accounting, business data processing, or retailing or as an executive, legal, or medical secretary. In addition to skill training, related courses are required which give the student background information as a basis for occupational competency and future advancement.

Each candidate for the Associate in Business degree must complete the minimum number of hours of approved courses, plus any deficiency requirements in the chosen field of specialization which are apparent when the adviser prepares the student's program. The total hours required for completion of a program varies with each particular field of study.

For those programs requiring typewriting and shorthand, placement tests are given to students who have had typing and shorthand in high school. Evidence of proficiency, as shown by the placement tests, will permit a student to take electives in lieu of certain required courses.

Candidates for the Associate in Business degree must complete the prescribed courses with a minimum overall grade point average of 3.00.

Accounting

These courses offer thorough and practical training for a position as book-keeper, payroll clerk, junior accountant, or assistant to an accountant or auditor. Positions with governmental agencies and in public accounting are also filled by graduates.

A minimum of 96 hours must be completed for graduation.

FIRST QUARTER				Cr. Lec. Lab.				Political			
Accounting I	ACC 101a-4	4	1					Economy	GSB 211a-4	4	0
Typewriting	SCR 101a-3	1	4					English			
Business and Technical								Composition	GSD 102-3	3	0
Mathematics	GEN 105a-3	3	0					Oral Communication			
English								of Ideas	GSD 103-3	4	0
Composition	GSD 101-3	3	0					THIRD QUARTER			
Elective		3						Accounting III	ACC 101c-4	4	1
SECOND QUARTER								Business Law I	ACC 226a-4	4	0
Accounting II	ACC 101b-4	4	1					Automatic Data Processing			
Calculating								Machines	DP 101a-5	5	5
Machines	ACC 109a-3	1	4					Political			
								Economy	GSB 211b-4	4	0

FOURTH QUARTER

Accounting IV	ACC 201a-4	4	1
Cost Accounting	ACC 204a-4	4	1
Business Law II	ACC 226b-4	4	0
Office Administration and Supervision	ACC 227-4	4	0

FIFTH QUARTER

Cost Accounting	ACC 204b-4	4	1
Federal Taxes	ACC 233-4	4	0
Business Statistics	ACC 235-4	4	0
Job Orientation	GEN 201-2	2	0

SIXTH QUARTER

Accounting V	ACC 201b-4	4	0
Auditing	ACC 230-4	4	0

Credits and
Collections
Elective

ACC 275-4	4	0
4		

RECOMMENDED ELECTIVES

Calculating Machines	ACC 101b-3	1	4
Punched Card Preparation	DP 109-3	2	3
Personnel Management	RET 227-3	3	0
Filing and Duplicating	SCR 107-3	2	2
Labor Management Relations Problems	GEN 232-4	4	0
Business Correspondence	GEN 101-3	3	0

Cooperative Retailing

Cooperative retailing is a merchandising program consisting of eight quarters. There are six quarters of classroom instruction and two quarters of college-credit work experience. The students must work in geographic areas that employ sufficient numbers to warrant efficient follow-up.

The program offers an opportunity for training in the areas of apparel, hard-line, food, or other specialty lines.

One of the unique features of this program is the learning that results from two quarters of on-the-job work experience.

The merchandising organizations that cooperate with the University provide job experience and other educational opportunities. The on-the-job training helps to assure the learner of up-to-date merchandising information and skills.

In order for an organization to qualify as a participant in cooperative retailing, it must agree to furnish the type of training that will meet established standards set by the school and approved by representatives of the merchants served.

Students that have satisfactorily completed, with a C or better average, the first three quarters are eligible for placement. Placement is a joint responsibility of the student and the school. Students will enroll, submit weekly reports, participate in seminars, and complete assigned term papers before receiving college credit for cooperative work experience.

Students may enter in the fall, winter, or summer quarter. The program requires 113 quarter hours to complete and takes two calendar years.

FIRST QUARTER

Cr. Lec. Lab.

Introduction to Retailing	RET 124-4	4	0
Product Analysis	RET 176-3	3	0
Product Information Laboratory	RET 177a-5	5	5

English

Composition	GSD 101-3	3	0
Job Orientation	GEN 201-2	2	0

SECOND QUARTER

Product Information Laboratory	RET 177b-5	5	0
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Sales				SEVENTH QUARTER			
Promotion	RET 207b-2	2	3	Sales			
Political				Promotion	RET 207a-4	4	0
Economy	GSB 211a-4	4	0	Merchandising			
English				Principles	RET 205-4	4	0
Composition	GSD 102-3	3	0	Fashion			
Oral Communication				Merchandising	RET 208b-2	2	0
of Ideas	GSD 103-3	4	0	Retail Store			
				Organization and			
THIRD QUARTER				Management	RET 224-4	4	0
Salesmanship	RET 127-3	3	0	Technical			
Retail				Writing	GEN 102-3	3	0
Mathematics	RET 179-5	5	0				
Behavior and				EIGHTH QUARTER			
Society	GSB 201c-4	4	0	Fashion			
Calculating				Merchandising	RET 208a-4	4	0
Machines	ACC 109a-3	1	4	Marketing			
				Problems	RET 215-4	4	0
FOURTH QUARTER				Retail Credits and			
Cooperative Work				Collections	RET 280-3	3	0
Experience	RET 201-8	0	36	Business			
				Law	ACC 226a-4	4	0
FIFTH QUARTER							
Cooperative Work				RECOMMENDED ELECTIVES			
Experience	RET 201-8	0	36	Fundamentals of			
				Business	ACC 126-3	3	0
SIXTH QUARTER				Office Administration and			
Record and				Supervision	ACC 227-4	4	0
Statistics	RET 206-5	5	0	Salesmanship	RET 127a-3	3	0
Personnel				Salesmanship	RET 127b-3	3	0
Management	RET 227-3	3	0	Typewriting	SCR 101a-3	1	4
Behavior and				All General Studies courses			
Society	GSB 201b-4	4	0				
Labor Management Relations							
Problems	GEN 232-4	4	0				

Electronic Data Processing (Business Option)

Punched card preparation, electromechanical machines operation, and electronic computers are processes and equipment used by the student who aspires to become a programmer. Courses in the theory of accounting, cost accounting, and related fields in business are required to complete this two-year program. Upon successful completion of this program, the student will be sufficiently trained to work in data processing and computer centers where the knowledge of programming is a prerequisite for working with electronic computers and related machines.

A minimum of 97 hours of credit must be completed for graduation.

FIRST QUARTER			Cr. Lec. Lab.	Business and Technical			
Automatic Data Processing				Mathematics	GEN 105a ¹ -3	3	0
Machines	DP 101a-5	5	5	Accounting	ACC 101a-4	4	1

40 / Vocational-Technical Institute

English
Composition GSD 101-3 3 0

SECOND QUARTER

Computer
Programming DP 103a-5 5 5
Accounting ACC 101b-4 4 1
Business and Technical
Mathematics GEN 105b-3 3 0
Political
Economy GSB 211b-4 4 0

THIRD QUARTER

Program Operating
Systems DP 206a-5 5 2
Data Processing
Applications DP 104-5 5 2
Accounting ACC 101c-4 4 1
English
Composition GSD 102-3 3 0

FOURTH QUARTER

Business Computer
Programming DP 203a-5 5 5
Systems Design and
Development DP 205-5 5 0
Cost Accounting ACC 204a-4 4 1
Technical
Writing GEN 102-3 3 0

FIFTH QUARTER

Business Computer
Programming DP 203b-5 5 5
Program Operating
Systems DP 206b-5 5 2
Office Administration and
Supervision ACC 227-4 4 0
Business
Statistics ACC 235-4 4 0

SIXTH QUARTER

Business Computer
Programming DP 203c-5 5 5
Data Processing Field
Project DP 207-5 1 9
Behavior and
Society GSB 201c-4 4 0

RECOMMENDED ELECTIVES

Business Law ACC 226-4 4 0
Labor Management Relations
Problems GEN 232-4 4 0
Political
Economy GSB 211a-4 4 0
Oral Communication
of Ideas GSD 103-3 4 0

Executive Secretarial

Students who wish to prepare for positions as professional secretaries in business, industrial, and governmental offices should follow this course of study.

The designated courses offer a combination of general education and skill-building courses which provide a high degree of occupational competence, as well as a general knowledge for the responsible execution of secretarial duties.

A minimum of 99 hours of credit must be completed for graduation.

FIRST QUARTER

Cr. Lec. Lab.
Typewriting SCR 101a-3 1 4
Shorthand SCR 104a-6 5 5
Filing and
Duplicating SCR 107-3 2 2
English
Composition GSD 101-3 3 0

SECOND QUARTER

Typewriting SCR 101b-3 1 4
Shorthand SCR 104b-6 5 5

Fundamentals of

Business ACC 126-3 3 0
Calculating
Machines ACC 109a-3 1 4
English
Composition GSD 102-3 3 0

THIRD QUARTER

Typewriting SCR 101c-3 1 4
Shorthand SCR 104c-6 5 5

Business Correspondence	GEN 101-3	3	0	SIXTH QUARTER			
Behavior and Society	GSB 201c-4	4	0	Typewriting	SCR 205b-3	1	4
				Shorthand	SCR 209b-6	5	5
				Secretarial Office Procedures	SCR 223-5	1	4
FOURTH QUARTER				Oral Communication of Ideas	GSD 103-3	4	0
Typewriting	SCR 205a-3	1	4				
Shorthand	SCR 209a-6	5	5				
Business Law	ACC 226a-4	4	0	RECOMMENDED ELECTIVES			
Business and Technical Mathematics	GEN 105a-3	3	0	Medical Shorthand	SCR 225a-6	5	5
				Accounting	ACC 101a-4	4	1
FIFTH QUARTER				Office Administration and Supervision	ACC 227-4	4	0
Legal Shorthand	SCR 224-6	5	5	Calculating Machines	ACC 109b-3	1	4
Secretarial Accounting	ACC 104-5	4	1	Business Law	ACC 226b-4	4	0
Job Orientation	GEN 201-2	2	0	Cooperative Secretarial Experience	SCR 214-2 to 5		
Political Economy	GSB 211b-4	4	0				

Legal Secretarial

The courses provide, in addition to the secretarial skill, specialized courses in law-office routines and legal knowledge. Graduates may secure positions as legal secretaries with attorneys, judges, or legal departments; or they may continue their studies in order to become conference or court reporters.

A minimum of 99 hours of credit must be completed for graduation.

FIRST QUARTER		Cr. Lec. Lab.		Secretarial			
Typewriting	SCR 101a-3	1	4	Accounting	ACC 104-5	4	1
Shorthand <i>or</i> Machine Short-hand	SCR 104a or 120a-6	5	5	English Composition	GSD 102-3	3	0
Calculating Machines	ACC 109a-3	1	4	FOURTH QUARTER			
English Composition	GSD 101-3	3	0	Typewriting Medical	SCR 205a-3	1	4
SECOND QUARTER				Shorthand	SCR 225a-6	5	5
				Secretarial Office Procedures	SCR 223-5	5	0
Typewriting	SCR 101b-3	1	4	Business Law	ACC 226a-4	4	0
Shorthand <i>or</i> Machine Short-hand	SCR 104b or 120b-6	5	5	FIFTH QUARTER			
Filing and Duplicating	SCR 107-3	2	2	Legal Shorthand	SCR 224-6	5	5
Business Correspondence	GEN 101-3	3	0	Business Law Behavior and Society	ACC 226b-4	4	0
THIRD QUARTER				Political Economy	GSB 201c-4	4	0
					GSB 211b-4	4	0
Typewriting	SCR 101c-3	1	4				
Shorthand <i>or</i> Machine Short-hand	SCR 104c or 120c-6	5	5				

SIXTH QUARTER

Typewriting	SCR 205b-3	1	4
Jury Charge	SCR 112-4	3	2
Two-Voice			
Testimony	SCR 210-4	3	2
Job Orientation	GEN 201-2	2	0
Oral Communication			
of Ideas	GSD 103-3	4	0

RECOMMENDED ELECTIVES

Accounting	ACC 101a-4	4	1
Office Administration and			
Supervision	ACC 227-4	4	0
Automatic Data Processing			
Machines	DP 101a-5	5	5
Business and Technical			
Mathematics	GEN 105a-3	3	0
Cooperative Secretarial			
Experience	SCR 214-2 to 5		

Medical Secretarial

These courses are for students who wish to prepare for positions as professional medical secretaries in doctors' offices, dentists' offices, hospitals, clinics, public health departments, research foundations, chemical companies, drug companies, institutions, publishing companies, and insurance companies. A combination of general education, technical training, and skill-building courses provides a high degree of occupational competence.

A minimum of 100 hours of credit must be completed for graduation.

FIRST QUARTER

		Cr.	Lec.	Lab.
Typewriting	SCR 101a-3	1	4	
Shorthand	SCR 104a-6	5	5	
Secretarial				
Accounting	ACC 104-5	4	1	
English				
Composition	GSD 101-3	3	0	

SECOND QUARTER

Typewriting	SCR 101b-3	1	4
Shorthand	SCR 104b-6	5	5
Business			
Correspondence	GEN 101-3	3	0
Oral Communication			
of Ideas	GSD 103-3	4	0

THIRD QUARTER

Typewriting	SCR 101c-3	1	4
Shorthand	SCR 104c-6	5	5
Filing and			
Duplicating	SCR 107-3	2	2
Fundamentals of			
Business	ACC 126-3	3	0
English			
Composition	GSD 102-3	3	0

FOURTH QUARTER

Typewriting	SCR 205a-3	1	4
Shorthand	SCR 209a-6	5	5
Calculating			
Machines	ACC 109a-3	1	4

Behavior and			
Society	GSB 201c-4	4	0

FIFTH QUARTER

Medical			
Shorthand	SCR 225a-6	5	5
Business Law	ACC 226a-4	4	0
Introduction to			
Physiology	GEN 141-5	5	0
Job Orientation	GEN 201-2	2	0

SIXTH QUARTER

Medical			
Shorthand	SCR 225b-5	5	5
Typewriting	SCR 205b-3	1	4
Secretarial Office			
Procedures	SCR 223-5	5	5
Political			
Economy	GSB 211b-4	4	0

RECOMMENDED ELECTIVES

Accounting	ACC 101a-6	5	5
Office Administration and			
Supervision	ACC 227-4	4	0
Cooperative Secretarial			
Experience	SCR 214-2 to 5		
Automatic Data Processing			
Machines	DP 101a-5	5	5
Business and Technical			
Mathematics	GEN 105a-3	3	0

ASSOCIATE IN TECHNOLOGY DEGREE PROGRAMS

THE PURPOSE of the Associate in Technology degree programs is to give the student a broad foundation in special subjects in the technical field, together with sufficient knowledge of theoretical principles to prepare him for successful participation in the industrial world.

The programs also include courses in general education to help the student understand problems encountered in living and working within his community. These programs are six quarters or more in length and require a minimum of 96 to 124 quarter hours.

Graduates are qualified for positions as estimators, technical assistants, draftsmen, engineering aids, commercial artists, factory representatives, and technicians in the fields of architecture, automotive, aviation, building construction, dental laboratory, electronics, highway and civil technology, forest products, machine drafting and design, tool and manufacturing, mortuary science and funeral service, data processing, and printing.

The technology programs also provide background courses for further study and training for students who intend to become vocational education teachers.

Each program described on the following pages is arranged by quarter. The arrangement, however, may be modified from time to time to meet the continually increasing demands of industry and business for technicians in a variety of areas.

Candidates for the Associate in Technology degree must complete the prescribed course of study with an overall grade point average of at least 3.00.

Architectural Technology

This program provides training in various aspects of the architectural profession. It offers courses of a technical and technically related nature, which provide the basic knowledge required for employment in the field of architecture, generally beginning as a draftsman and affording an opportunity for advancement in such areas as projects coordination, specifications writing, architectural design, structural and mechanical engineering, and architectural supervision.

Several field trips to near-by cities to study historical and contemporary architecture are made each year. Allowance should be made in the student's budget to cover the expense of these trips and for the purchase of small amounts of equipment and supplies.

A minimum of 105 hours of credit must be completed for graduation.

FIRST QUARTER		Cr. Lec. Lab.		History of		
Architectural				Architecture	AD 147-3	3 0
Drafting	AD 110a-5	2	9	Business and Technical		
Freehand Architectural				Mathematics	GEN 105b ¹ -3	3 0
Graphics	AD 146a-3	1	5	Political		
				Economy	GSB 211b-4	4 0

¹ Students who score below a satisfactory level on the mathematics part of the ACT examination must take GEN 103-0 prior to taking Math 111a-5.

44 / Vocational-Technical Institute

SECOND QUARTER				FIFTH QUARTER			Cr. Lec. Lab.		
Architectural				Architectural					
Drafting	AD 110b-3	2	4	Design	AD 221b-4	3	6		
Architectural				Materials and Methods					
Design	AD 121a-2	1	3	of Construction	AD 250b-4	3	6		
Freehand Architectural				Construction Cost					
Graphics	AD 146b-3	1	5	Estimating	AD 283-3	3	0		
College Algebra	Math 111a-5	5	0	Theory of					
Introduction to Physical				Structures	AD 290a-3	3	0		
Science	GSA 101a-4	4	0	English					
				Composition	GSD 101-3	3	0		
THIRD QUARTER				SIXTH QUARTER					
Architectural				Architectural					
Design	AD 121b-4	3	6	Design	AD 221c-4	3	6		
Materials and Methods				Materials and Methods					
of Construction	AD 151-4	3	6	of Construction	AD 250c-4	3	6		
Mechanics and Strength				Mechanical Equipment					
of Materials	AD 153-4	4	0	of Buildings	AD 254-4	4	0		
Site Engineering	AD 152-2	1	3	Theory of					
Basic Materials of				Structures	AD 290b-3	3	0		
Construction	AD 150-3	3	0	English					
				Composition	GSD 102-3	3	0		
FOURTH QUARTER				RECOMMENDED ELECTIVES					
Architectural				Architectural					
Design	AD 221a-4	3	6	Rendering	AD 246-3	2	3		
Materials and Methods				Fundamentals of					
of Construction	AD 250a-4	3	6	Business	ACC 126-3	3	0		
Structural				Business Law	ACC 226-4	4	0		
Elements	BC 258-4	4	0	Business					
Job Orientation	GEN 201-2	2	0	Correspondence	GEN 101-3	3	0		
Behavior and				Labor Management Relations					
Society	GSB 201c-4	4	0	Problems	GEN 232-4	4	0		
				Typewriting	SCR 101-3	1	4		
				Behavior and					
				Society	GSB 201b-4	4	0		

Automotive Technology

A very low percentage of those employed in automotive service have had formal technical training in their chosen vocation. For the ambitious graduate who has the ability and adequate technical training, automotive service offers unlimited challenge and opportunity for advancement.

This program offers specialized training in areas such as: steering geometry, wheel balancing, hydraulic and electrical circuitry, automatic transmissions, drive trains, rework and machining of automotive parts, and the use of modern electronic diagnostic equipment for determining carburetion and electrical malfunctions. After instruction on laboratory-type engines, chassis, etc., each student is assigned to "live" vehicle diagnosis and repair. This allows for the attainment for maximum competency on the part of each trainee.

A minimum of 100 hours of credit must be completed for graduation.

FIRST QUARTER		Cr. Lec. Lab.		Technical Writing Elective	GEN 102-3	3	0
Automotive Laboratory (Engines)	AUT 101a-5	0	15		3		
Automotive Theory (Engines)	AUT 125a-5	5	0	FIFTH QUARTER			
Technical Drawing	MT 175a-3	3	2	Automotive Laboratory (Transmission Power Systems)	AUT 201b-5	0	15
Business and Technical Mathematics	GEN 105b ¹ -3	3	0	Automotive Theory (Transmission Power Systems)	AUT 220b-5	5	0
SECOND QUARTER				Political Economy Elective	GSB 211b-4	4	0
Automotive Laboratory (Chassis and Brakes)	AUT 101b-5	0	15		3		
Automotive Theory (Chassis and Brakes)	AUT 125b-5	5	0	SIXTH QUARTER			
Introduction to Physical Science	GSA 101a-4	4	0	Automotive Laboratory (Diagnosis)	AUT 201c-5	0	15
English Composition	GSD 101-3	3	0	Automotive Theory (Diagnosis)	AUT 220c-5	5	0
THIRD QUARTER				Behavior and Society Elective	GSB 201c-4	4	0
Automotive Laboratory (Ignition and Carburetion)	AUT 101c-5	0	15		3		
Automotive Theory (Ignition and Carburetion)	AUT 125c-5	5	0	RECOMMENDED ELECTIVES			
Oral Communication of Ideas	GSD 103-3	4	0	Metallurgy	TT 275b ² -3	2	3
Basic Applied Physics	GEN 120-4	3	3	Oxy-Acetylene and Arc Welding	WEL 175 ² -3	1	4
FOURTH QUARTER				Basic Machine Shop Practice	TT 175 ² -3	1	4
Automotive Laboratory (Power Options)	AUT 201a-5	0	15	Manufacturing Processes	TT 176b ² -3	3	0
Automotive Theory (Power Options)	AUT 220a-5	5	0	College Algebra	Math 111a-5	5	0
				Introduction to Physical Science	GSA 101b-4	4	0
				Labor Management Relations Problems	GEN 232-4	4	0
				Typewriting	SCR 101a-3	1	4
				Electrical, Hydraulic, and Pneumatic Controls	MT 127-3	3	0

Aviation Technology

The airlines and general aviation constitute an industry that requires large organizations staffed by highly skilled technicians. The industry has grown at such an unprecedented rate in the last decade that it is now faced with a serious shortage of properly trained aviation technicians. Men are needed who possess a wide range of knowledge and ability provided by general education as well as special technical training.

¹ Students who score below a satisfactory level on the mathematics part of the ACT examination must take GEN 103-0 prior to taking GEN 105b-3.

² At least one elective must be taken from this group of recommended electives.

The aviation technology program covers the essential elements that are involved in this highly specialized industry. Students are trained for the field of aviation maintenance and operations, aviation electronics, and air carrier operations.

Upon graduation, the student receives the Associate in Technology degree, and depending on his area of concentration, is qualified to obtain the Federal Aviation Agency (FAA) Airman Airframe and Powerplant certificate as an A & P maintenance technician, or commercial pilot, and is eligible for the instrument flight rating or the flight engineer written examination.

Aviation technology facilities are located at the Southern Illinois Airport, three miles NNW of the Carbondale Campus and three miles ENE of Murphysboro, Illinois.

Students entering the aviation technology program for the first time must purchase a basic tool kit which costs approximately \$90.

Students choosing the aviation technology curriculum with flight training will pay, in addition to the regular tuition and fees, a flight charge of approximately \$600 for the Private Pilot Course.

A minimum of 108 quarter hours must be completed for graduation.

Maintenance Technician (option)

Although the Private Pilot Course (Aviation Technology 230-3) is approved by the Federal Aviation Agency (FAA) and should be an integral part of the maintenance technician option, students may exclude it.

FIRST QUARTER		Cr. Lec. Lab.		Jet Propulsion		
Aircraft Reciprocating				Powerplant	AT 108-6	4 6
Powerplant	AT 101-6	3	9	Powerplant		
Carburetion and Lubrication				Testing	AT 109-4	2 6
Systems	AT 102-6	3	8	Technical		
Business and Technical				Writing	GEN 102-3	3 0
Mathematics	GEN 105b ¹ -3	3	0	FOURTH QUARTER		
English				Fabric-Wood-		
Composition	GSD 101-3	3	0	Doping	AT 107-4	3 6
SECOND QUARTER				Aerodynamics	AT 203-5	3 4
Aircraft Electricity,				Aircraft Structure		
Generator-				and Repair	AT 110-3	3 0
Alternator	AT 103-6	5	6	Oxy-Acetylene and Electric		
Propellers	AT 104-5	3	6	Arc Welding	WEL 175-3	1 4
Aircraft				Oral Communication		
Instruments	AT 105-4	3	4	of Ideas	GSD 103-3	3 0
Technical				FIFTH QUARTER		
Drawing	MT 175-3	1	4	Weight & Balance and		
THIRD QUARTER				Inspection	AT 209-6	5 4
Aircraft Ignition-Starting				Pressurization, Air-		
Systems	AT 106-5	3	6	Conditioning		
				Systems	AT 205-3	2 2

¹ Students who score below a satisfactory level on the mathematics part of the ACT examination must take GEN 103-0 prior to taking 105b-3.

Metal and Processing	AT 206-4	2	6	Jet Transport Aircraft Systems	AT 220-3	3	2
Radio Operation and Installation	AT 217-1	1	2	Labor Management Relations Problems	GEN 232-4	4	0
Behavior and Society	GSB 201c-4	4	0	Political Economy	GSB 211b-4	4	0

SIXTH QUARTER

Aircraft			
Hydraulics	AT 204-5	3	6
Aircraft Fuel Systems	AT 208-2	1	2

RECOMMENDED ELECTIVES

Private Pilot	AT 230b-1	0	3.3
Business Law	ACC 226a-4	4	0
Record Keeping	ACC 229-2	1	5
Salesmanship	RET 127-3	3	0

Professional Pilot (option)

This option is fully approved by the Federal Aviation Agency (FAA) under Approval No. 4624 as an Airframe and Powerplant Technician School, and under Approval No. C-19-21 as a Flight School. It combines the Aviation Maintenance Option with commercial pilot flight training, instrument flight, and general education. Upon completion of the program, the student is also qualified to obtain the Federal Aviation Agency (FAA) Airman A & P Certificate as a maintenance technician or commercial pilot and is eligible for the instrument flight rating or the flight engineer written examination.

Flight courses are divided into basically 40-hour increments and require the following total payments:

Course No.	Course Title	Flight Hours	Discussion Time	Flight Tuition
AT 230	Private Pilot	40:00	35:00	\$600.00
AT 231	Basic	40:00	12:00	600.00
AT 232	Intermediate	40:00	12:00	600.00
AT 233	Advanced	40:00	12:00	600.00
AT 234	Instrument Flight	30:00	30:00	600.00

One hour of simulator time is given in each phase of the private and commercial courses. The cost of each course includes supplies such as computers, log books, textbooks, etc.

Payment for each course is due at the beginning of the quarter for which the student is enrolled. If delayed payment of the flight course cost is required, the following will be acceptable:

\$300 shall be due upon enrollment and before flight instruction can begin and the balance for each course as outlined above shall be due six weeks following the first payment.

In no event will a student be allowed fly with an outstanding debit balance in his account.

Policy of refund of deposit on course not completed: The time flown will be charged at full rate. Cost of books plus a \$10 processing charge will also be deducted from the amount of deposit.

A minimum of 124 quarter hours must be completed for graduation.

FIRST QUARTER		Cr.	Lec.	Lab.	Private Pilot Course	AT 230-3	1	4
Aircraft Reciprocating Powerplant	AT 101-6	3		9	English Composition	GSD 101-3	3	0
Carburetion and Lubrication Systems	AT 102-6	3		8				

SECOND QUARTER

Aircraft Electricity, Generator- Alternator	AT 103-6	5	6
Propellers	AT 104-5	3	6
Aircraft Instruments	AT 105-4	3	4
Business and Technical Mathematics	GEN 105b-3	3	0

THIRD QUARTER

Aircraft Ignition-Starting Systems	AT 106-5	3	6
Jet Propulsion Powerplant	AT 108-6	4	6
Powerplant Testing	AT 109-4	2	6
Basic Flight	AT 231-3	1	4

FOURTH QUARTER

Intermediate Flight	AT 232-3	1	4
Technical Writing	GEN 102-3	3	0
Technical Drawing	MT 175-3	1	4
Welding	WEL 125a-5	5	0
Oral Communication of Ideas	GSD 103-3	3	0

FIFTH QUARTER

Fabric-Wood- Doping	AT 107-4	3	6
Aerodynamics	AT 203-5	3	4
Advanced Flight	AT 233-3	1	4
Political Economy	GSB 211b-4	4	0

SIXTH QUARTER

Aircraft Hydraulics	AT 204-5	3	6
Pressurization, Air-Conditioning Systems	AT 205-3	2	2
Metal and Processing	AT 206-4	2	6
Instrument Flight Behavior and Society	AT 234-3	1	4
	GSB 201c-4	4	0

SEVENTH QUARTER

Weight & Balance and Inspection	AT 209-6	5	4
Aircraft Fuel Systems	AT 208-2	1	2
Jet Transport Aircraft Systems	AT 220-3	3	2
Labor Management Relations Problems	GEN 232-4	4	0
Elective	3		

RECOMMENDED ELECTIVES

Behavior and Society	GSB 201a-4	4	0
Behavior and Society	GSB 201b-4	4	0
Political Economy	GSB 211a-4	4	0
Business Law	ACC 226-4	4	0
Political Economy	GSB 211b-4	4	0
Salesmanship	RET 127-3	3	0

Aviation Electronics (option)

This two-year option provides the student with the necessary knowledge and skills for employment in many areas of the aviation industry.

Emphasis is on the fundamental theories, principles, and mathematics and their applications in the field of electronics. It is recommended that students have a strong background in high school mathematics and science.

Workbooks must be purchased from time to time for laboratory courses, with approximate cost of \$10.

The first four quarters are offered at Southern Acres, and the last two quarters (fifth and sixth) are offered in the aviation technology building at the Southern Illinois Airport.

A minimum of 99 hours of credit must be completed for graduation.

FIRST QUARTER		Cr. Lec. Lab.		Political Economy	GSB 211b-4	4	0
Basic Electronic Applications and Systems (AC, DC)		ELT 101a-4	0 10	FOURTH QUARTER			
Basic Electronic Theory (AC, DC)		ELT 125a-5	5 0	Advanced Electronic Applications		ELT 201a-4	0 10
Basic Technological Concepts		ELT 127-3	3 0	Advanced Industrial Systems Theory		ELT 225a-5	5 0
Business and Technical Mathematics		GEN 105b ¹ -3	3 0	F.C.C. License		ELT 228-3	3 0
English Composition		GSD 101-3	3 0	Introduction to Physical Science		GSA 101b-4	4 0
SECOND QUARTER				FIFTH QUARTER			
Basic Electronic Applications and Systems (Vacuum Tube & Transistor)		ELT 101b-4	0 10	Aircraft Communications and Navigation Systems		AT 251a-3	3 0
Basic Electronic Theory (Vacuum Tube & Transistor)		ELT 125b-5	5 0	Avionics Laboratory I		AT 251b-9	0 18
Electrical Circuits		ELT 129-3	3 0	Aircraft Integrated Flight Systems		AT 252a-3	3 0
Introduction to Physical Science		GSA 101a-4	4 0	Avionics Laboratory II		AT 252b-3	0 6
THIRD QUARTER				SIXTH QUARTER			
Basic Electronic Applications and Systems (Transmitter & Receiver)		ELT 101c-4	0 10	Aircraft Flight Controls and Instrumentation Systems		AT 253a-3	3 0
Electronic Theory (Transmitter & Receiver)		ELT 125c-5	5 0	Avionics Laboratory III		AT 253b-3	0 8
Diagnostic Analysis		ELT 131-3	3 0	Airborne Radar Systems		AT 254a-3	3 0
				Avionics Laboratory IV		AT 254b-3	0 6
				Technical Writing		GEN 102-3	3 0

Building Construction Technology

These courses provide training which will enable the individual to qualify for positions of greater opportunity and responsibility after relatively short periods of apprenticeship or trade experience in the fields of construction supervision, cost estimating, management, and building construction.

Field trips to nearby cities to study and observe various types of construction are made each school year. Allowance should be made for the purchase of small amounts of equipment and supplies.

A minimum of 106 hours of credit must be completed for graduation.

¹ Students who score below a satisfactory level on the mathematics part of the ACT examination must take GEN 103-0 prior to taking either 105b-3 or Math 111a-5.

FIRST QUARTER		Cr. Lec. Lab.		FOURTH QUARTER		
Production Woodworking Laboratory				Site Engineering	AD 152-2	4 3
(Machines)	FP 101a-5	0	15	Materials and Methods of Construction	AD 250a-4	3 6
Wood Technology	FP 128-4	4	0	Structural Elements	AD 258-4	4 0
Architectural Drafting	AD 110a-5	2	9	Production Woodworking Laboratory (Light Frame)	FP 201a-5	0 15
Business and Technical Mathematics	GEN 105b-3	3	0	Wood Finishing	FP 129-3	3 0
SECOND QUARTER				FIFTH QUARTER		
Production Woodworking Laboratory (Cabinet and Millwork)	FP 101b-5	0	15	Construction	BC 210a-3	3 0
College Algebra	Math 111a-5	5	0	Materials and Methods of Construction	AD 250b-4	3 6
Introduction to Physical Science	GSA 101a-4	4	0	Construction Cost Estimating	AD 283-3	3 0
Behavior and Society	GSB 201c-4	4	0	Theory of Structures	AD 290a-3	3 0
THIRD QUARTER				Production Woodworking Laboratory (Prefabrication)	FP 201b-5	0 15
Materials and Methods of Construction	AD 151-4	3	6	SIXTH QUARTER		
Basic Materials of Construction	AD 150-3	3	0	Construction	BC 210b-3	3 0
Mechanics and Strength of Materials	AD 153-4	4	0	Business Law	ACC 226a-4	4 0
Mechanical Equipment of Buildings	AD 254-4	4	0	Labor Management Relations Problems	GEN 232-4	4 0
Job Orientation	GEN 201-2	2	0	Political Economy	GSB 211b-4	4 0
				English Composition	GSD 101-3	3 0

Dental Laboratory Technology

A dental technician is an individual trained and educated to perform those phases of the dental laboratory procedures required in the fabrication of dental prosthetic appliances. He may work in a licensed dentist's office, or he may find employment in an approved dental laboratory. Each student must purchase a kit of instruments, which costs approximately \$100. This is in addition to regular university fees.

This program has been designed to meet the standards established by the Council on Dental Education and the Council on Dental Trades and Laboratories of the American Dental Association. It has been fully approved by the accrediting agency of the Association. Applicants must take a Dental Technology Aptitude Test during registration week of the fall or winter quarter at the Vocational-Technical Institute's Dental Technology Laboratory.

A minimum of 103 quarter hours must be completed for graduation.

FIRST QUARTER		Cr. Lec. Lab.		Crown and Bridgework		
Dental Prosthetics Laboratory (Tooth Form)		DT 101a-6	0 18	Theory (Individual Cast Restorations)	DT 225a-3	3 0
Dental Prosthetics Theory (Tooth Form)		DT 125a-3	3 0	Metallurgy	TT 275-3	4 1
Business and Technical Mathematics		GEN 105a ¹ -3	3 0	Behavior and Society	GSB 201c-4	4 0
English Composition		GSD 101-3	3 0	FIFTH QUARTER		
SECOND QUARTER				Crown and Bridgework Laboratory		
Dental Prosthetics Laboratory (Partial Dentures)		DT 101b-6	0 18	DT 201b-6		0 18
Dental Prosthetics Theory (Partial Dentures)		DT 125b-3	3 0	Crown and Bridgework Theory		
Science of Dental Materials		DT 113a-3	3 0	DT 225b-3		3 0
Oral Anatomy		DT 128-2	2 0	Fundamentals of Business		
Introduction to Physical Science		GSA 101a-4	4 0	ACC 126-3		3 0
THIRD QUARTER				Technical Writing		
Dental Prosthetics Laboratory (Complete Dentures)		DT 101c-6	0 18	GEN 102-3		3 0
Dental Prosthetics Theory (Complete Dentures)		DT 125c-3	3 0	RET 127-3		3 0
Introduction to Physiology		GEN 141-5	5 0	SIXTH QUARTER		
Introduction to Chemistry		GEN 115a-4	4 0	Crown and Bridgework Laboratory (Ceramics and Precision Attachments)		
FOURTH QUARTER				DT 201c-6		0 18
Crown and Bridgework Laboratory (Individual Cast Restorations)		DT 201a-6	0 18	Crown and Bridgework Theory (Ceramics and Precision Attachments)		
				DT 225c-3		3 0
				Professional Ethics		
				DT 202-2		2 0
				Political Economy		
				GSB 211b-4		4 0
				Oral Communication of Ideas		
				GSD 103-3		4 0
				RECOMMENDED ELECTIVES		
				Record Keeping		
				ACC 229-2		1 4
				Calculating Machines		
				ACC 109-6		5 5
				Typewriting		
				SCR 101-3		1 4
				Introduction to Physical Science		
				GSA 101b-4		4 0
				Trigonometry		
				Math 111b-5		5 0
				Welding Theory (Oxy-Acetylene)		
				WEL 125a-5		5 0

Electronic Data Processing (Industrial Option)

This program provides training in the technical skills underlying the operation and programming of data acquisition and computing equipment as applied to industrial purposes. Punched card preparation, electro-

¹ Students who score below a satisfactory level on the mathematics part of the ACT examination must take GEN 103-0 prior to taking GEN 105a-3.

mechanical machines operation, and electronic computers are processes and equipment used by the student who aspires to become a programmer.

A minimum of 99 hours of credit must be completed for graduation.

FIRST QUARTER		Cr. Lec. Lab.		FOURTH QUARTER		Cr. Lec. Lab.	
Automatic Data Processing				Industrial Computer			
Machines	DP 101a-5	5	5	Programming	DP 202a-5	5	5
Fundamentals of				Systems Design and			
Business	ACC 126-3	3	0	Development	DP 205-5	5	0
Manufacturing				Technical			
Processes	TT 176a-3	3	0	Drawing	MT 175a-3	3	2
Business and Technical				Kinematics	MT 225-3	3	0
Mathematics	GEN 105b ¹ -3	3	0	FIFTH QUARTER			
Introduction to Physical				Business			
Science	GSA 101a-4	4	0	Statistics	ACC 235-4	4	0
SECOND QUARTER				Industrial Computer			
Computer				Programming	DP 202b-5	5	5
Programming	DP 103a-5	5	5	Program Operating			
College				Systems	DP 206b-5	5	2
Algebra	MATH 111a-5	5	0	Technical			
Manufacturing				Writing	GEN 102-3	3	0
Processes	TT 176b-3	3	0	SIXTH QUARTER			
Basic Applied				Data Processing Field			
Physics	GEN 120-4	2	4	Project	DP 207-5	1	9
THIRD QUARTER				Business Computer			
Program Operating				Programming	DP 203c-5	5	0
Systems	DP 206a-5	5	2	Behavior and			
Data Processing				Society	GSB 201c-4	4	0
Applications	DP 104-5	5	2	RECOMMENDED ELECTIVES			
Applied Calculus				Accounting	ACC 101-4	4	1
English	GEN 118-4	4	0	Business Law	ACC 226-4	4	0
Composition	GSD 101-3	3	0	Office Administration and			
				Supervision	ACC 227-4	4	0

Electronics Technology

Objectives of this program are to educate a semi-professional electronics technician capable of taking his place in industry in both indirect and direct support to the electronics engineer. The indirect supporting technician is being trained in test measurements, data acquisition, etc. The direct supporting technician is educated to be more mathematically oriented so he can communicate with the engineer. He would work on matters of routine design and other problems.

Graduates are employed by such concerns as General Electric, Bell Labs, Argonne Labs, I.B.M., Univac, and Los Alamos Labs. About eighty

¹ Students who score below a satisfactory level on the mathematics part of the ACT examination must take GEN 103-0 prior to taking GEN 105b-3.

percent of these graduates work in indirect support positions and the remaining twenty percent in direct support positions.

During the early stages of the program, most instruction is directed toward basic principles of electricity and electronics. This is followed by communication systems, digital circuits, and industrial systems. These applications are based on both vacuum tubes and transistor circuitry.

Workbooks required for laboratory courses cost approximately \$10.

A minimum of 99 hours of credit must be completed for graduation.

FIRST QUARTER		Cr. Lec. Lab.		FOURTH QUARTER		Cr. Lec. Lab.	
Basic Electronic Applications and Systems (AC, DC)				Advanced Electronic Applications			
ELT 101a-4		0	10	ELT 201a-4		0	10
Basic Electronic Theory (AC, DC)				Advanced Industrial Systems Theory			
ELT 125a-5		5	0	ELT 225a-5		5	0
Basic Technological Concepts				Introduction to Physical Science			
ELT 127-3		3	0	GSA 101b-4		4	0
College Algebra				(or Basic Applied Physics)			
Math 111a ¹ -5		5	0	GEN 120-4		4	0)
				English Composition			
				GSD 101-3		3	0
SECOND QUARTER				FIFTH QUARTER			
Basic Electronic Applications and Systems (Vacuum Tube and Transistor)				Advanced Electronic Applications			
ELT 101b-4		0	10	ELT 201b-5		0	10
Basic Electronic Theory (Vacuum Tube and Transistor)				Advanced Industrial Systems Theory			
ELT 125b-5		5	0	ELT 225b-5		5	0
Electrical Circuits				Technical Writing			
ELT 129-3		3	0	GEN 102-3		3	0
Applied Calculus				Behavior and Society			
GEN 118-4		4	0	GSB 201c-4		4	0
THIRD QUARTER				SIXTH QUARTER			
Basic Electronic Applications and Systems (Transmitter and Receiver)				Advanced Electronic Applications			
ELT 101c-4		0	10	ELT 201c-5		0	10
Basic Electronic Theory (Transmitter and Receiver)				Advanced Industrial Systems Theory			
ELT 125c-5		5	0	ELT 225c-5		5	0
Diagnostic Analysis				F.C.C. License			
ELT 131-3		3	0	ELT 228-3		3	0
Introduction to Physical Science				Political Economy			
GSA 101a-4		4	0	GSB 211b-4		4	0
				RECOMMENDED ELECTIVES			
				Technical Drawing			
				MT 175-3		1	4
				Labor Management Relations Problems			
				GEN 232-4		4	0
				Salesmanship			
				RET 127-3		3	0
				Typewriting			
				SCR 101-3		1	4
				Oral Communication of Ideas			
				GSD 103-3		3	0

¹ Students who score below a satisfactory level on the mathematics part of the ACT examination must take GEN 103-0 prior to taking Math 111a-5.

Electrical Power Transmission Option

FIRST QUARTER		Cr. Lec. Lab.		FIFTH QUARTER		Cr. Lec. Lab.	
Basic Electronic Applications & Systems	ELT 101a-4	0	10	Electrical Field Work II	ELT 243-6		
Basic Electronic Theory	ELT 125a-5	5	0	Electrical Distribution II	ELT 241-5	2	9
Basic Technological Concepts	ELT 127-3	3	0	Federal Communications Commission License	ELT 228-3	3	0
Technical Mathematics	GEN 105b ¹ -3	3	0	Political Economy	GSB 211b-4	4	0
SECOND QUARTER				SIXTH QUARTER			
Basic Electronic Applications & Systems	ELT 101b-4	0	10	Advanced Industrial Systems Theory	ELT 225b-5	5	0
Basic Electronic Theory	ELT 125b-5	5	0	Advanced Electronic Applications	ELT 201b-4	0	10
Electrical Circuits	ELT 129-3	3	0	Electro-Mechanical Behavior and Society	ELT 245-5	2	9
English Composition	GSD 101-3	3	0		GSB 201c-4	4	0
Technical Drawing	MT 175a-3	0	5	SEVENTH QUARTER			
THIRD QUARTER				Technical Writing	GEN 102-3	3	0
Basic Electronic Theory	ELT 125c-5	5	0	Labor Management Relations Problems	GEN 232-4	4	0
Electrical Distribution I	ELT 141-5	2	9	Electrical Systems Controls	ELT 247-5	2	9
Basic Electronic Applications & Systems	ELT 101c-4	0	10	Electrical Industry Practice	ELT 249-3	3	0
Introduction to Physical Science	GSA 101a-4	4	0	Elective	3		
FOURTH QUARTER				RECOMMENDED ELECTIVE			
Electrical Field Work I	ELT 145-12			Oral Communication of Ideas	GSD 103-3	3	0

Forest Products Technology

This course of study provides training for technical and supervisory positions in the forest products industries. New developments in wood utilization, prefabricated construction, manufacturing, and wood research provide increasing career opportunities. Graduates find employment as specialists in production, seasoning, laminating, and quality control in furniture, millwork, and structural components plants. In wood laboratories they perform as research technicians conducting experiments, col-

¹ Students who score below a satisfactory level on the mathematics part of the ACT examination must take GEN 103-0 prior to taking GEN 105b-3.

lecting data, and assisting in analysis and evaluation of test results.

Students participate in a number of field trips for which they pay their own expenses.

A minimum of 100 hours of credit must be completed for graduation.

FIRST QUARTER				FOURTH QUARTER			
		Cr.	Lec. Lab.			Cr.	Lec. Lab.
Production Woodworking				Production Woodworking			
Laboratory				Laboratory (Light			
(Machines)	FP 101a-5	0	15	Frame)	FP 201a-5	0	15
Production Woodworking				Production Woodworking			
Theory				Theory (Light			
(Machines)	FP 125a-3	3	0	Frame)	FP 225a-3	3	0
Wood Technology	FP 128-4	2	4	Wood Preservation	FP 232-2	2	0
Wood Finishing	FP 129-3	3	0	Technical			
English				Writing	GEN 102-3	3	0
Composition	GSD 101-3	3	0	Behavior and			
				Society	GSB 201c-4	4	0
SECOND QUARTER				FIFTH QUARTER			
Production Woodworking				Production Woodworking			
Laboratory (Cabinet and				Laboratory			
Millwork)	FP 101b-5	0	15	(Prefabrication)	FP 201b-5	0	15
Production Woodworking				Production Woodworking			
Theory (Cabinet and				Theory			
Millwork)	FP 125b-3	3	0	(Prefabrication)	FP 225b-3	3	0
Basic Woodworking				Lumber Seasoning	FP 130-3	3	0
Drafting	FP 178-3	1	4	College			
Basic Materials of				Algebra	MATH 111a-5	5	0
Construction	AD 150-3	3	0				
Business and Technical							
Mathematics	GEN 105b ¹ -3	3	0				
THIRD QUARTER				SIXTH QUARTER			
Production Woodworking				Production Woodworking			
Laboratory (Furniture				Laboratory (Manufacturing			
Construction)	FP 101c-5	0	15	Processes)	FP 201c-5	0	15
Production Woodworking				Production Woodworking			
Theory (Furniture				Theory (Manufacturing			
Construction)	FP 125c-3	3	0	Processes)	FP 225c-3	3	0
Lumber Grading	FP 131-2	2	1	Plant Organization and			
Furniture Drafting				Operation	FP 250-3	3	0
and Design	FP 179-3	1	4	Political			
Introduction to Physical				Economy	GSB 211-4	4	0
Science	GSA 101a-4	4	0				
				RECOMMENDED ELECTIVES			
				Record Keeping	ACC 229-2	1	3
				Business			
				Correspondence	GEN 101-3	3	0
				Labor Management Relations			
				Problems	GEN 232-3	3	0
				Calculating			
				Machines	ACC 109a-3	1	4
				Typewriting	SCR 101-3	1	4

¹ Students who score below a satisfactory level on the mathematics part of the ACT examination must take GEN 103-0 prior to taking GEN 105b-3.

Highway and Civil Technology

This program provides comprehensive and well balanced instruction in applied highway civil technology and related science.

The curriculum consists of the following four subject-matter divisions plus 18 weeks of cooperative work experience: (1) specialized technical courses in the technology, (2) auxiliary or supporting technical courses, (3) mathematics and science courses, and 18 weeks of cooperative work experience after completion of the first three quarters of formal classroom and laboratory training, and (4) General Studies courses.

A minimum of 110 hours of credit must be completed for graduation.

FIRST QUARTER		Cr. Lec. Lab.		FOURTH QUARTER (SUMMER)	
Architectural				Cooperative Work	
Drafting	AD 110a-5	3	9	Experience	HCT 202a-8
Surveying	HCT 101a-5	3	9		
Introduction to Physical				FIFTH QUARTER	
Science	GSA 101a-4	4	0	Cooperative Work Experience	
Business and Technical				(6 weeks)	HCT 202b-4
Mathematics	GEN 105-3	0	3	Hydraulics and	
SECOND QUARTER				Drainage	HCT 203-5 4 4
Structural				Mechanics and Strength	
Drafting	HCT 105a-3	1	5	of Materials	AD 153b-4 3 3
Surveying	HCT 101b-3	2	4	SIXTH QUARTER	
Basic Materials	HCT 103-3	2	3	Bituminous	
College				Materials	HCT 205-2 1 2
Algebra	MATH 111a ¹ -5	5	0	Civil	
Introduction to Physical				Construction	HCT 207a-5 5 0
Science	GSA 101b-4	4	0	Applied Calculus	GEN 118-4 4 0
THIRD QUARTER				Behavior and	
Structural				Society	GSB 201c-4 4 0
Drafting	HCT 105b-3	1	5	Technical	
Surveying	HCT 101c-5	3	9	Writing	GEN 102-3 3 0
Mechanics and Strength of				SEVENTH QUARTER	
Materials	AD 153a-4	4	0	Route Surveying	
English				HCT 209-5	2 8
Composition	GSD 101-3	3	0	Roadway Design and	
Soils				Construction	HCT 213-5 4 4
	HCT 107-3	2	3	Civil	
				Construction	HCT 207b-3 3 0
				Labor Management Relations	
				Problems	GEN 232-4 4 0

Machine Drafting and Design Technology

This program prepares students for jobs in industry which require knowledge and abilities in drafting and design of a mechanical nature. Gradu-

¹ Students who score below a satisfactory level on the mathematics part of the ACT examination must take GEN 103-0 prior to taking GEN 105-3.

ates work as draftsmen, jig and fixture designers, laboratory technicians, research and development engineering aides, and technical supervisors. With additional experience, they may advance to positions as machine and tool designers, industrial supervisors, tool buyers, production expeditors, cost estimators, and field service representatives.

In the major course, emphasis is placed on graphical communication and problem solving techniques, product and tool design principles and practices, engineering standards, manufacturers' standards, and the selection of methods for efficient and economical production. Other courses in the curriculum are intended to improve the student's ability to communicate in words, to acquaint him with materials and processes of industry, to impart the mathematical skills and scientific knowledge essential for the designer, and to develop understandings of the human relations aspects of our American industrial life.

A minimum of 97 hours of credit must be completed for graduation.

FIRST QUARTER		Cr.	Lec.	Lab.	Kinematics	MT 225-3	3	0
Graphics	MT 101a-7	3	12		Metallurgy	TT 275b-3	2	3
Manufacturing					Elective	3		
Processes	TT 176a-3	3	0					
Business and Technical					FIFTH QUARTER			
Mathematics	GEN 105b ¹ -3	3	0		Machine Drafting and			
Introduction to Physical					Design	MT 201b-5	0	15
Science	GSA 101a-4	4	0		Statics and Strength of			
					Materials	MT 226b-3	3	0
SECOND QUARTER					Electrical, Hydraulic,			
Graphics	MT 101b-7	3	12		and Pneumatic			
Manufacturing					Controls	MT 127-3	3	0
Processes	TT 176b-3	3	0		Political			
College					Economy	GSB 211b-4	4	0
Algebra	MATH 111a-5	5	0		SIXTH QUARTER			
English					Machine Drafting and			
Composition	GSD 101-3	3	0		Design	MT 201c-7	2	13
THIRD QUARTER					Tool Design	MT 227-3	3	0
Graphics	MT 101c-7	3	12		Metallurgy	TT 275c-3	2	3
Basic Applied					Oral Communication			
Physics	GEN 120-4	3	3		of Ideas	GSD 103-3	4	0
(or Introduction					or Technical			
to Physical					Writing	(GEN 102-3	3	0)
Science	GSA 101b-4	4	0)		RECOMMENDED ELECTIVES			
Behavior and					Labor Management Relations			
Society	GSB 201c-4	4	0		Problems	GEN 232-4	4	0
FOURTH QUARTER					Machine Tool Theory			
Machine Drafting and					(Engine, Lathe, and			
Design	MT 201a-5	0	15		Bench)	TT 125-3	3	0
Statics and Strength of					Machine Tool			
Materials	MT 226a-2	2	0		Theory (Precision			
					Measurement)	TT 125-3	3	0

¹ Students who score below a satisfactory level on the mathematics part of the ACT examination must take GEN 103-0 prior to taking GEN 105-3.

Political					Advanced Machine Tool			
Economy	GSB 211a-4	4	0		Laboratory (Milling			
Machine Tool Laboratory					Machines)	TT 201-3	0	10
Engine, Lathe, and					Welding Laboratory (Oxy-			
Bench	TT 101-5	0	15		Acetylene)	WEL 101-5	0	15
Advanced Machine Tool					English			
Theory (Milling					Composition	GSD 102-3	3	0
Machines)	TT 225-3	3	0		Applied Calculus	GEN 118-4	4	0

Mortuary Science and Funeral Service

This program is fully accredited by the American Board of Funeral Service Education.

These courses offer thorough and practical training for the profession of funeral directing and mortuary science. Graduates of this program are prepared to take the State examination for licensing. Those who expect to practice in a state other than Illinois should make early contact with the appropriate licensing board of that state.

A minimum of 124 hours of credit must be completed for graduation.

FIRST QUARTER		Cr.	Lec.	Lab.	FOURTH QUARTER			
The Funeral—History and					Principles of			
Customs	MS 101a-3	3	0		Physiology	GSA 301-4	3	3
Introduction to					Oral Communication			
Chemistry	GEN 115a-4	3	3		of Ideas	GSD 103-3	4	0
Behavior and					Psychology of			
Society	GSB 201b-4	4	0		Personality	PSYC 305-4	4	0
Political								
Economy	GSB 211a-4	4	0		FIFTH QUARTER			
English					Restorative Art	MS 202a-3	2	3
Composition	GSD 101-3	3	0		Introduction to			
					Embalming	MS 203-3	3	0
SECOND QUARTER					Pathology	MS 205a-3	3	0
The Funeral—History and					Emotional			
Customs	MS 101b-3	3	0		Health	HED 312-4	4	0
Embalming					Elective	3		
Chemistry	MS 110-4	3	3					
Psychology of Funeral					SIXTH QUARTER			
Services	MS 210a-3	3	0		Restorative Art	MS 202b-3	2	3
Political					Pathology	MS 205b-3	3	0
Economy	GSB 211b-4	4	0		Embalming Theory and			
English					Practice	MS 225a-5	3	6
Composition	GSD 102-3	3	0		Introductory			
					Microbiology	MS 206-5	4	3
THIRD QUARTER								
Accounting	ACC 101a-4	4	1		SEVENTH QUARTER			
Business Law	ACC 226a-4	4	0		Psychology of Funeral			
Behavior and					Services	MS 210b-3	3	0
Society	GSB 201c-4	4	0		Embalming Theory and			
Public Health, Laws and					Practice	MS 225b-5	3	6
Regulations	MS 208-2	2	0		Mortuary			
Communicable					Management	MS 250-5	5	0
Disease	HED 300-3	3	0					

Human Anatomy	PHSL 300-4	4	4
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EIGHTH QUARTER			
Funeral Service Internship	MS 275-10	2	38
Funeral Service Seminar	MS 280-2	1	3

Printing Technology

This program provides training for the rapidly changing printing industry. Employment opportunities have never been greater than they are at the present time for technically trained personnel in the graphic arts industry.

Emphasis is placed on production in both the offset and the letterpress printing fields. Graduates of this program are prepared to enter the graphic arts industry, composed of printing, publishing, and allied businesses.

A minimum of 99 hours of credit must be completed for graduation.

FIRST QUARTER		Cr.	Lec.	Lab.
Presswork Laboratory (Automatic Platen)	PT 101a-6	0		15
Presswork Theory (Automatic Platen)	PT 125a-3	3		0
Layout and Color Theory	CA 135-2	2		0
Business and Technical Mathematics	GEN 105a ¹ -3	3		0
English Composition	GSD 101-3	3		0

SECOND QUARTER				
Presswork Laboratory (Camera and Offset)	PT 101b-6	0		15
Presswork Theory (Camera and Offset)	PT 125b-3	3		0
Printing Layout and Design	PT 153-3	3		0
English Composition	GSD 102-3	3		0
Elective		3		

THIRD QUARTER				
Presswork Laboratory (Offset and Camera)	PT 101c-6	0		15
Presswork Theory (Offset and Camera)	PT 125c-3	3		0

Technical Writing	GEN 102-3	3		0
Behavior and Society	GSB 201c-4	4		0

FOURTH QUARTER				
Composition Laboratory (Linotype, Intertype)	PT 201a-6	0		15
Composition Theory (Linotype, Intertype)	PT 225a-3	3		0
Labor Management Relations Problems	GEN 232-4	4		0
Oral Communication of Ideas	GSD 103-3	4		0

FIFTH QUARTER				
Composition Laboratory (Linotype, Ludlow)	PT 201b-6	0		15
Composition Theory (Linotype, Ludlow)	PT 225b-3	3		0
Political Economy	GSB 211b-4	4		0
Elective				

SIXTH QUARTER				
Composition Laboratory (Letterpress and Offset Production)	PT 201c-6	0		15

¹ Students who score below a satisfactory level on the mathematics part of the ACT examination must take GEN 103-0 prior to taking GEN 105a-3.

Composition Theory

(Letterpress and Offset Production)	PT 225c-3	3	0
Estimating and Cost in Printing	PT 251-3	3	0
Business Law	ACC 226a-4	4	0

RECOMMENDED ELECTIVES

Business			
Correspondence	GEN 101-3	3	0
Salesmanship	RET 127-3	3	0
Typewriting	SCR 101-3	1	4
Political			
Economy	GSB 211a-4	4	0

Tool and Manufacturing Technology

This program provides knowledge and abilities for industries requiring engineering technicians. Graduates accept jobs as part programmers of numerical control machines, laboratory technicians, planners, methods and quality control technicians, expeditors, tool and die technicians, tool room technicians, and tool room supervisors.

Emphasis is on modern machine tools and accessories, numerical control machines, production set-ups and tooling, jigs and fixtures, dies, and methods for efficient and economical production and manufacture of industrial products and machines.

Also included are courses dealing with the properties and heat treatment of metals, mathematics, technical drawing, technical writing, oral communications, and the human relations aspects of our American industrial life.

A minimum of 96 hours of credit must be completed for graduation.

FIRST QUARTER		Cr. Lec. Lab.		THIRD QUARTER	
Machine Tool Laboratory (Drill Press, Benchwork, Engine Lathe)	TT 101a-5	0	15	Machine Tool Laboratory (Milling Machine and Grinder)	TT 101c-5 0 15
Machine Tool Theory (Introduction to Machine Tools)	TT 125a-3	3	0	Machine Tool Theory (Mill Set-Ups and Grinding Wheel Safety and Selection)	TT 125c-3 3 0
Technical Drawing	MT 175a-3	2	3	Technical Drawing	MT 175c-4 1 4
Business and Technical Mathematics	GEN 105b ¹ -3	3	0	English Composition	GSD 101-3 3 0
Introduction to Physical Science	GSA 101a-4	4	0		
SECOND QUARTER				FOURTH QUARTER	
Machine Tool Laboratory (Advanced Engine Lathe, Shaper, Vertical Mill)	TT 101b-5	0	15	Advanced Machine Tool Laboratory (Tool and Die)	TT 201a-3 0 10
Machine Tool Theory (Machinability of Metals)	TT 125b-3	3	0	Advanced Machine Tool Theory (Quality Control and Inspection Practices)	TT 225a-3 3 0
Technical Drawing	MT 175b-3	1	4	Manufacturing Processes	TT 176b-3 3 0
College Algebra	MATH 111a-5	5	0	Statics	MT 226a-2 2 0
				Basic Applied Physics	GEN 120-4 3 3

¹ Prerequisite: 103 or satisfactory ACT mathematics score.

or Introduction to Physical Science	(GSA 101b-4	4	0)	Advanced Machine Tool Theory (Cost Estimating and Production Scheduling)	TT 225c-3	3	0
FIFTH QUARTER				Political Economy	GSB 211-4	4	0
Advanced Machine Tool Laboratory (Production Machines)	TT 201b-3	0	10	Oral Communication of Ideas	GSD 103-3	4	0
Advanced Machine Tool Theory (Process Planning)	TT 225b-3	3	0	or Technical Writing	(GEN 102-3	3	0)
Metallurgy	TT 275b-3	2	3	Elective			
Strength of Materials	MT 226b-3	3	0	RECOMMENDED ELECTIVES			
Behavior and Society	GSB 201c-4	4	0	Graphics	MT 101-7	3	12
SIXTH QUARTER				Welding Laboratory	WEL 101-5	0	15
Advanced Machine Tool Laboratory (Production Machines and Numerical Control)	TT 201c-3	0	10	Applied Calculus	GEN 118-4	4	0
				Machine Drafting and Design	MT 201-5	0	15
				English Composition	GSD 102-3	3	0
				Metallurgy	TT 275c-3	2	3

Water Resources Technology

The objective of the program is to provide comprehensive and well-balanced instruction in water resources technology and related science. Training in this program should equip the graduate to take an entry job in which he will be productive; it should enable him to advance to positions of increasing responsibility after a reasonable amount of experience; and it should provide a comprehensive foundation to support further study in the graduate's field of technology.

The graduate of this curriculum will have a knowledge of laboratory procedures and skill in performing many types of tests on liquid wastes, solid wastes, and water to determine bacteriological and chemical characteristics. He will be qualified for entry either into a variety of positions such as public health engineering aide, sanitation aide, water and waste water treatment plant operator, stream sanitation technician, industrial waste technician, water plant operators, into technical sales and services of equipment and chemicals, or into positions with federal, state, and local governments and municipalities, with consulting engineers, and in wet-process industries.

A minimum of 122 hours of credit must be completed for graduation.

FIRST QUARTER		Cr.	Lec.	Lab.	English Composition	GSD 101-3	3	0
Water Resources Technology, Introduction	WRT 101-2	1		3	SECOND QUARTER			
Technical Drawing	MT 175a-3	3		1	Analysis of Water & Wastewater I	WRT 103a-3	1	6
College Algebra	MATH 111a-5	5		0	Structural Drafting	HCT 105a-3	1	5
Introduction to Chemistry	GEN 115a-4	4		3				

62 / Vocational-Technical Institute

Trigonometry	Math 111b-5	5	0
Introduction to Physical Science	GSA 101a-4	4	0
Oral Communication of Ideas	GSD 103-3	4	0

THIRD QUARTER

Hydraulics Applied	WRT 105-3	2	4
Microbiology	WRT 107-3	2	4
Analysis of Water & Wastewater II	WRT 103b-3	1	6
Applied Calculus	GEN 118-5	5	0
Introduction to Physical Science	GSA 101b-4	4	0

FOURTH QUARTER

Supervised Work Experience	WRT 109a-8		
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FIFTH QUARTER

Surveying Applied	WRT 203-4	2	6
Electricity	WRT 205-4	4	0
Hydraulics and Drainage	HCT 203-5	3	6
Elective	4		

SIXTH QUARTER

Supervised Work Experience	WRT 109b-8		
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SEVENTH QUARTER

Legal Aspects Unit	WRT 207-3	3	0
Operations I	WRT 209a-4	2	8
Water Systems Technical	WRT 211-4	3	4
Writing Elective	GEN 102-3	3	0
	4		

EIGHTH QUARTER

Stream Sanitation Unit	WRT 213-3	2	3
Operations II	WRT 209b-4	2	8
Wastewater Systems	WRT 215-4	3	4
Industrial Wastes	WRT 217-3	2	3
Elective	4		

RECOMMENDED ELECTIVES

Labor Management Relations Problems	GEN 232-4	4	0
Behavior and Society	GSB 201c-4	4	0
Political Economy	GSB 211b-4	4	0
Other GSA, B, or C courses			

COURSE DESCRIPTIONS

Here are described all of the courses offered by Southern Illinois University at Carbondale for credit toward an associate degree. (Courses for other degrees are described in the Undergraduate Catalog.) Courses are listed numerically within each subject-matter area. Areas are listed below in the order of their appearance on the following pages.

Vocational-Technical Institute Courses

Accounting (ACC)	General (GEN)
Architectural Drafting (AD)	Highway and Civil Technology (HCT)
Automotive Technology (AUT)	Library and Audio-Visual Technology (LAV)
Aviation Technology (AT)	Machine Drafting and Design Technology (MT)
Building Construction (BC)	Mortuary Science (MS)
Commercial Art (CA)	Physical Therapy (PTH)
Cooperative Retailing (RET)	Printing Technology (PT)
Corrections and Law Enforcement (CLE)	Secretarial (SCR)
Data Processing (DP)	Tool and Manufacturing Technology (TT)
Dental Hygiene (DH)	Water Resources Technology (WRT)
Dental Laboratory Technology (DT)	Welding (WEL)
Electronics Technology (ELT)	
Forest Products Technology (FP)	

Other Courses Included in VTI Programs

Man's Physical Environment and Biological Inheritance (GSA)	Chemistry (CHEM)
Man's Social Inheritance and Social Responsibilities (GSB)	Government (GOVT)
Man's Insights and Appreciations (GSC)	Health Education (H ED)
Organization and Communication of Ideas (GSD)	Mathematics (MATH)
Health and Physical Development	Physical Education for Men (PEM)
	Physiology (PHSL)
	Psychology (PSYC)
	Sociology (SOC)
	Technical and Industrial Education

Accounting (ACC)

101-12 (4,4,4) Accounting. (a) Basic structure of accounting-ledger, journal posting, trial balance, accounting cycles, sales and cash receipts, purchase and cash payments, notes, deferrals, and accruals. (b) Accounts receivable, inventory and plant assets, accounting systems, concepts and control. Payroll and sales taxes, partnership, corporation (nature and formation), capital stock, earning and dividend. (c) Departments and branch, manufacturing analysis and interpretation of financial statements. Control accounting-manufacturing and process cost, job order, budgetary control standard costs, income taxes, cost relationship for management, special analysis and internal reports and other reports. Must be taken in a,b,c sequence.

104-2 to 5 Secretarial Accounting. Basic principles of accounting from the viewpoint of the secretary. The accounts of private individuals, professional men, institutions, and small business firms of various types are studied.

109-9 (3,3,3) Calculating Machines. (a) Development of operational skill on the key-driven calculator, ten-key adding machine, full-key adding machine, rotary calculator, and accounting machines. Production standards are used to measure skill proficiency. (b) Further development of skill. (c) Office practice sets and skill-developing production timings are used to accomplish occupational competency on the calculating machines to be used in the students' chosen major fields. Must be taken in a,b,c sequence.

126-3 Fundamentals of Business. This survey of business services provides a general knowledge of the modern business world and a basis for determining occupational possibilities and requirements.

201-8 (4,4) Accounting. An advanced study of: (a) Accounting record, merchandising and manufacturing accounts, end-of-year procedures, corrections of profit of prior periods, accounting statements, current assets and long-term investments. (b) Tangible and intangible fixed assets, liabilities, reserves, statement of application of funds, analysis of working capital, analytical and comparative percents and ratios. Must be taken in a,b sequence. Prerequisite: 101c.

204-8 (4,4) Cost Accounting. Relates cost accounting to management for control; general principles involved in construction of a cost system; distribution of cost materials, labor and burden; cost record; operating reports; joint and by products costs and budgetary control. Prerequisite: 101c.

226-8 (4,4) Business Law. (a) Introduction to the history and philosophy of law, contract law, and agency law. (b) Negotiable instruments law, sales law, suretyship law. Must be taken in a,b sequence.

227-4 Office Administration and Supervision. Principles of management as applied to office work. Emphasis on the role of the office in business management; office organization; physical facilities of the office; office services, procedures, standards, and controls; and records management. Prerequisite: 126.

229-2 Record Keeping. The complete cycle of records necessary in running a business in buying, selling, inventories, payroll, and stock control.

230-4 Auditing. Auditing principles, standards, and procedures and the short-form report of independent auditors are emphasized. Audit programs and relationship to internal control. Aim to develop perspective and techniques of auditors. Consideration given to authoritative pronouncements of the American Institute of Certified Public Accountants and the Securities Exchange Commission. Prerequisite: 204-8.

233-4 Federal Taxes. A study of current income tax laws and regulations as they relate primarily to individuals (and, incidentally, to partnerships and corporations). Preparation of tax returns and laboratory problems emphasizing the individual taxpayer. Prerequisite: 101c.

235-4 Business Statistics. Collection, tabulation, and graphic presentation of data, averages and index numbers, economic trends, cycles, correlation, and application. Prerequisite: 126.

275-4 Credits and Collections. Organization and operation of the credit department including sources and analysis of credit information, collection methods, and correspondence. Credit management emphasized. Prerequisite: 101c.

Architectural Drafting (AD)

110-8 (5,3) Architectural Drafting. (a) Freehand lettering, use of drafting instruments, geometric construction, orthographic projections, intersection of surfaces, and isometric drawing. (b) Shades and shadows, perspective construction, and the application of techniques to presentation drawings. Lecture and laboratory. Must be taken in a,b sequence.

121-6 (2,4) Architectural Design. A study of the principles of architectural planning, design, composition, and presentation as applied to structures of a simple nature. (a) Composition design principles. (b) Principles of planning and design. Lecture and laboratory. Prerequisites: 110a, 146a, or consent of adviser.

146-6 (3,3) Freehand Architectural Graphics. Freehand drawing from life; sketching and presentation techniques. (a) Pencil techniques. (b) Theory of color and techniques in various color media. Lecture and laboratory. Must be taken in a,b sequence.

147-3 History of Architecture. Analysis of the development of architecture from the ancient to the present time as it is related to the environmental and cultural setting of man.

150-3 Basic Materials of Construction. Introduction to materials of construction with emphasis upon those materials not specifically regarded as structural, such as floor covering, wall covering, paints and finishes, lighting, etc.

151-4 Materials and Methods of Construction. A comprehensive study of light frame construction including foundations, manufacture and performance characteristics of materials, framing systems, finish materials, development of construction details and working drawings. Lecture and laboratory. Prerequisite: 110a or consent of adviser.

152-2 Site Engineering. Site selection considerations, land surveys, survey computations, contours, uses of contours, leveling, computations of cut and fill, drainage and grading, laying out of buildings and roads, and check list for site plans. Lecture and laboratory. Prerequisites: 110-8 and Mathematics 111b, or consent of adviser.

153-8 (4,4) Mechanics and Strength of Materials. Elementary technical study of force systems; centroids and moments of inertia of areas, deformation and stress, flexure and deformation of beams, combined stresses in short blocks, columns. Prerequisite: Mathematics 111a concurrently, or consent of adviser.

221-12 (4,4,4) Architectural Design. Study of architectural planning, design, composition, and presentation. (a) Small commercial and residential structures. (b) Complex low-rise structures and building groups. (c) Continuation of b with selected problems in architectural design of high-rise buildings and building groups. Lecture and laboratory. Must be taken in a,b,c sequence. Prerequisite: 121b or consent of adviser.

246-3 Architectural Rendering. Pencil drawing and water color from still life and landscape. Lecture and laboratory. Prerequisite: 146 or consent of adviser.

250-12 (4,4,4) Materials and Methods of Construction. A comprehensive study of materials and methods of construction including foundations, manufacture and performance characteristics of materials, framing systems, finish materials, development of construction details and working drawings. (a) Semi-fire-proof construction. (b) Fire-proof construction. (c) Long-span steel joists and steel detailing. Lecture and laboratory. Must be taken in a,b,c sequence. Prerequisite: 151 or consent of adviser.

254-4 Mechanical Equipment of Buildings. Code requirement and specifications affecting mechanical equipment; design and installation of plumbing; heating, ventilating, and air-conditioning equipment; electrical wiring; illumination and vertical transportation. Prerequisite: fourth-quarter status in concentration or consent of adviser.

258-4 Structural Elements. Analysis of building loads, theories of shear, flexure, and deflection as they pertain to the design of steel and timber structural members. Prerequisite: 153 or consent of adviser.

283-3 Construction Cost Estimating. A study in methods of preliminary estimates, labor costs, quantity surveying, materials lists, construction schedules, preparation of working estimates. Prerequisite: 250a or consent of adviser.

285-3 Office Practice.

290-6 (3,3) Theory of Structures. Theory of structural design and use of the handbooks. (a) Reinforced concrete design. (b) Graphic analysis of force systems, structural members, and trusses of wood and steel. Must be taken in a,b sequence. Prerequisite: 258 or consent of adviser.

Automotive Technology (AUT)

101-15 (5,5,5) Automotive Laboratory. (a) Automotive engines. Disassembly and assembly procedures on laboratory units. (b) Principles of brakes and steering learned in 125b are applied on laboratory units and later on live vehicles. (c) Ignition and carburetion. The repair and testing of electrical and fuel units. Must be taken in a,b,c, b,a,c, or a,c,b sequence, concurrently with a corresponding section of 125.

125-15 (5,5,5) Automotive Theory. (a) Internal combustion engine theory. (b) Chassis and brake systems, covering brake theory and factors of steering geometry. (c) Ignition and carburetion. Must be taken in a,b,c, b,a,c, or a,c,b sequence, concurrently with a corresponding section of 101.

201-15 (5,5,5) Automotive Laboratory. (a) Power options. (b) Transmission power systems. (c) Diagnosis.

220-15 (5,5,5) Automotive Theory. (a) Power options. (b) Transmission power systems. (c) Diagnosis.

Aviation Technology (AT)

101-6 Aircraft Reciprocating Powerplant. Theory of aircraft powerplants, construction, operation, and overhaul. Computation of horsepower, types of cooling, timing, and materials used in construction. Shop practices in disassembly,

cleaning, inspection, and measurement to include study of applicable FAA regulations.

102-6 Carburetion and Lubrication Systems. Theory of carburetion, induction, and lubrication systems. Principles of operation of various carburetors. Type, composition, and characteristics of fuel and jet fuel. Overhaul and inspection, maintenance, and adjustment of carburetors, pumps, valves, fuel injection systems, and accessories. Repair and inspection of oil regulating systems.

103-6 Aircraft Electricity, Generator-Alternator. A study of basic electricity, batteries, electrical components, lighting systems. Solution of DC and AC problems. Studies of alternating current, frequency, cycle, inductance, reactance, and impedance. Operation and repair of alternators, rectifiers, inverters; theory and application of transformers.

104-5 Propellers. Theory and operation of propellers and governors. Including inspection, overhaul, and serving of propellers, both hydraulic and electrical. Operation of propeller deicing systems and turbo-prop propellers.

105-4 Aircraft Instruments. Theory of operation, installation, marking, and interpretation of aircraft instruments. Precautions and method of correct installation. Minor field adjustment and calibration.

106-5 Aircraft Ignition-Starting Systems. A study of electro-magnetism and principles of induction covering operation of magnetos, high and low tension systems, boosters, solenoids, relays, and cranking motors. Selection and construction of spark plugs. Overhaul of ignition and starting components. Proper care and use of testing equipment.

107-4 Fabric-Wood-Doping. Specification of material, such as fabric, wood, dope, thinner, paint, sewing threads. Safety precautions in doping area. Performing wood structure repairs. Recovering aircraft assemblies. Care and use of spray equipment.

108-6 Jet Propulsion Powerplant. History of and introduction to pulse jets, ram jets, rockets, turbo-jet and turbo-prop engines. Theory of operation of turbine engines. Jet engine aerodynamics, thermoefficiency, component functional operation and performance. Jet engine requirements and care. Computation of thrust and analysis of factors affecting thrust. Inspection, repair, and reassembly of a jet engine.

109-4 Powerplant Testing. Installation of engines; methods, procedures and precautions to be observed. Inspection and trouble shooting of reciprocating and jet engines. Interpretation of instrument readings. Trimming jet engines, fuel management, and cruise control.

110-3 Aircraft Structure and Repair. A study of Federal Aviation Agency Regulations AC 43.13-1 on welded steel structures. Identification, selection, and inspection of weldable and non-weldable materials. Flutter precautions when welding repairs are made on high performance airplanes. Principles of oxy-acetylene and arc welding. Study of heat treatment methods and the processes employed in the analysis, evaluation, and testing of aircraft materials.

203-5 Aerodynamics. Theory of flight and factors affecting aircraft in flight. Design and stress consideration. Problems of lift, drag, velocity, V_{min} , thrust coefficient, wing loading, etc. Comparable analysis of design feature in subsonic, transonic and supersonic aircraft. General helicopter aerodynamics. Practical instruction in assembly and rigging of aircraft wing flaps and control system. Analysis of faulty flight characteristics.

204-5 Aircraft Hydraulics. Fluid theory and applied physics. Theory of operation, maintenance, and adjustment of hydraulic system and component units. Overhaul of hydraulic components. Testing, servicing, and adjustment of system. Performing retraction test, trouble shooting, and periodic inspection.

205-3 Pressurization, Air-Conditioning Systems. Acquaints the students with altitude aircraft used by the airlines. Lecture and demonstration on pneumatic system, anti-icing, cabin pressurization, and air-conditioning systems. Lecture and laboratory.

206-4 Metal and Processing. A study of aircraft aluminum alloys and their physical properties and heat treatment. FAA method of repairs. General study on design, strength, stress, and other related processes of aluminum and its alloys. Perform sheet metal repair in accordance with FAA methods.

208-2 Aircraft Fuel Systems. Study of fuel management and flow configuration. Trace fuel systems, and replacement of component units. Lecture and laboratory.

209-6 Weight & Balance and Inspection. FAA regulations covering mainte-

nance, inspection, and repair of aircraft. Study of aircraft loading and its effect on balance. Solving load and balance problems. Conduct proper method of ground handling, jacking, and weighing aircraft. Perform inspections: 100 hours, periodic, and progressive. Lecture.

217-1 Radio Operation and Installation. Type of communication and navigation radio equipment. Installation procedure and field trouble shooting. Lecture and laboratory.

220-3 Jet Transport Aircraft Systems. Comparison of systems on various current jet airliners. Field trips to major airlines. Lecture and laboratory.

230-3 (2,1) Private Pilot Course. (a) Ground instruction in navigation, radio navigation, meteorology, and flight planning. (b) Dual and solo flight instruction in single engine aircraft for an FAA Private Pilot License.

231-3 Basic Flight. Forty total flight hours: fifteen dual and twenty-seven solo. Dual includes advanced flight maneuvers, instrument training, and transition from 2- to 4-place aircraft. Solo flight hours include ten hours of cross-country in the Cessna 150 and two hours of flight maneuvers in the Cessna 172. Prerequisite: 230-3.

232-3 Intermediate Flight. Forty flight hours: thirteen dual and twenty-seven solo. Dual hours include two hours dual cross-country and two hours night cross-country. This, in addition to the local night dual and solo, completes the night requirement for the commercial license. The solo hours include fifteen hours of advanced cross-country. Also, forty hours of classroom work in weather analysis, advanced navigation, computer practice, and aircraft performance. Prerequisite: 231.

233-3 Advanced Flight. Forty flight hours: fourteen dual and twenty-six solo. This completes the student's proficiency for a commercial certificate. Includes transition to a more advanced, complex aircraft, including constant-speed prop, and other advanced flight controls. The student completes various advanced flight maneuvers and has opportunity to make observer and copilot flights on multiengine equipment up through DC-3 type aircraft. Prerequisite: 232.

234-3 Instrument Flight. Both full- and partial-panel flight is emphasized using Cessna 150 and 172 aircraft. Thirty-five hours dual in basic instrument and radio navigation. The radio portion emphasizes VOR and ADF navigation approaches. Prerequisite: 233.

251-12 (3,9) Aircraft Communications and Navigation Systems, and Avionics Laboratory I. (a) Principles of aircraft communication systems, VHF transmitter, transceivers and controls. (b) Operation of VHF AMNIRANCE, VOR systems, marker beacons, localizer circuitry, glide-slope and antennas, ADF circuitry and antennas, maintenance, inspection, repairing and trouble shooting transceivers, VHF transmitters, VOR equipment, ILS receiving equipment and ADF sets, flight check procedure and calibration. Must be taken concurrently. Prerequisite: Electronics Technology 225a.

252-6 (3,3) Aircraft Integrated Flight System, and Avionics Laboratory II. (a) A study of flux gate compass and transmitter, amplifier and repeaters, polarpath compass, RMI repeaters, gyrosyn direction indicator, system schematic, flight director computer, and various integrated systems such as Sperry, Bendix, Collins, and Kollsman. Trouble shooting test and calibration equipment. (b) Federal Aviation Agency accepted methods of installation and layouts of airborne radio equipment, communications, and navigation. Proper execution of FAA form 337 and applicable FAR. Weight and balance of aircraft as a result of avionics equipment installations. Prerequisite: Electronics Technology 225a.

253-6 (3,3) Aircraft Flight Controls and Instrumentation Systems, and Avionics Laboratory III. (a) Basic principles of flight instrumentation, and automatic flight controls. Investigation and testing of Lear, Federal, Factair, Mitchell, Glove, Javelin, Sperry, and Bendix and Collins autopilot systems. Trouble shooting systems. (b) Systems installations, FAA forms, specifications, service bulletins, FAA-STC and weight and balance control. Must be taken concurrently. Prerequisite: Electronics Technology 225a.

254-6 (3,3) Airborne Radar Systems, and Avionics Laboratory IV. (a) Pulse circuit and microwave theory. Receiver band width and sensitivity, image response, decoder, reply frequency, pulse characteristics and echo suppression. (b) Principles of distance-measuring equipment (DME), radar beacon transponders and airborne weather radar. System installation and servicing. Must be taken concurrently. Prerequisite: 251-12.

Building Construction (BC)

210-9 (3,3,3) Construction. A technical study of masonry, concrete, metal, wood, and synthetics used in home construction. Development of skills limited to the very basic processes and tools. (a) Rough framing in wood construction. (b) Cabinet making, bench wood-working, and finished carpentry. (c) Continuation of b with the addition of finishing and preservation application. Lecture and laboratory. Prerequisite: Architectural Drafting 250a or consent of adviser.

Commercial Art (CA)

101-3 Art Analysis. Primarily a general art history background. Analytical discourse of the aims, techniques, methods, materials, and media of classical and contemporary artists and their influence on today's commercial art.

125-10 Techniques—Theory and Practice. A basic, well-disciplined, practical background in using the most suitable materials. Stresses versatility in using all media acceptable in commercial art today. Also, the preparation of art work for reproduction.

130-10 Advertising Design and Production. Production of practical, attractive, original, effective, and aesthetically pleasing art in all advertising media, with emphasis on lettering, typography, and practicality of reproduction. Prerequisite: 125-10.

135-2 Layout and Color Theory. Modern advertising layout for printing technology students, with emphasis on the theory and use of color as applied to the printing field today.

140-10 Introductory Advertising and Story Illustration. Execution of problems typical of those which confront the advertising illustrator, in various media, with emphasis on excellence, individuality of concept and technical treatment, and creative development. Prerequisite: 130-10.

210-23 (8,8,7) Advertising and Story Illustration Theory and Practice. (a) Execution of various problems typical of those which confront the story illustrator, with emphasis on subject analysis, research, drawing, composition and preparation of the finished piece. From concept to completion, the student employs creative organization of pictorial material at a professional level. (b) Complex and comprehensive assignments, with emphasis on layout design and advanced rendering techniques. (c) Design and development of three-dimensional point-of-purchase displays and practical application of color separation overlays. Must be taken in a,b,c sequence, concurrently with a corresponding part of 230. Prerequisite: 140-10.

230-20 (7,7,6) Technical Illustration Theory and Practice. Based on the exacting requirements of the armed forces and industry. (a) Preparation and rendering of aircraft, automotive, and machine parts in various media from blueprints for operation and maintenance manuals. (b) Emphasis on rendering and reproduction suitability. (c) Emphasis on advanced air-brush rendering, and technical manual publication. Must be taken in a,b,c sequence, concurrently with a corresponding part of 210. Prerequisite: 140-10.

Cooperative Retailing (RET)

124-4 Introduction to Retailing. Duties and responsibilities in the store, distribution functions, modern store organization, history and background of modern retailing, and the basic responsibilities of the student in the cooperative retailing program.

127-6 (3,3) Salesmanship. Principles and techniques of selling. (a) Basic principles of salesmanship. Personality requirements, techniques of making sales in the retail stores, retail sales problems and ways to solve them. (b) Analysis of the techniques of prospecting used in specialized selling; determining customer needs, presenting merchandise, meeting objections, and professionally assisting customers. May be taken in a,b or b,a sequence.

176-3 Product Analysis. Background in basic theories and principles of analyzing merchandise.

177-10 (5,5) Product Information Laboratory. Application of the principles of analyzing merchandise and the study of how this information is used. (a) Textile merchandise. (b) Nontextile merchandise. Prerequisite: 176 or concurrently. May be taken in a,b or b,a sequence.

179-5 Retail Mathematics. Analysis and calculations encountered daily in the merchandising field: mark-up, mark-down, stock records, profits, expenses, discounts, and invoices.

201-16 (8,8) Cooperative Work Experience. Full-time training in a University approved merchandising establishment. Includes preparation of weekly reports, participation in periodic discussions with other trainees led by the coordinator, and completion of a written project. Opportunity to learn the functional organization of the company, to become acquainted with the store system and policies, and to perform the duties of a position which offers the potential for learning and experience; opportunity to survey and participate in a department's merchandising (planning) efforts. Prerequisite: the first three quarters; C or better average in major.

205-4 Merchandising Principles. Duties of the buyer and department manager. Organization for buying. Includes buying functions, management and activities, single and multi-unit stores, resident buying and services, techniques and problems of merchandise selection.

206-5 Records and Statistics. A survey and interpretation of record-keeping systems used in a retail establishment. Analyzing merchandise and expense-control data.

207-6 (4,2) Sales Promotion. Fundamentals of sales promotion; its relationship to the advertising, display, and merchandising divisions of a store. (a) The fundamentals of sales promotion and its relationship to all forms of publicity. Principles and techniques of retail advertising. (b) Principles and techniques of the physical presentation of merchandise. May be taken in a,b or b,a sequence.

208-6 (4,2) Fashion Merchandising. Fashion, its influence and application to all phases of merchandising. (a) Fashion as it applies to buying and selling and its influence on customer demand; basic principles of color, line, and design; interpretation of factors that influence fashion. (b) Prediction fashion from an analysis of fashion literature. May be taken in a,b or b,a sequence.

215-4 Marketing Problems. Problems in the retail merchandising and management areas. Includes current readings, analysis and discussions of problems and cases provided by the store and/or the instructor.

224-4 Retail Store Organization and Management. Organization and operation of a retail business. Forms of ownership, financing a new business, location, building and layout, insurance, and store policies.

227-3 Personnel Management. Retail personnel management, employee relations, policies, methods of recruitment, selection, placement, and training. Emphasis on relationship to the merchandising division of the store.

280-3 Retail Credits and Collections. Principles and practices of a retail credit department: credit sales practices, human relations, Credit Bureau, credit letters, and collection procedures.

Corrections and Law Enforcement (CLE)

103-4 Introduction to Crime Control. Review of the historical and ideological foundations of law enforcement and corrections; delineation of major patterns of practice and organizational structure; and description of major programs and their inter-relationships.

105-4 Criminal Behavior. Introduction to personality theories and their application to causes of crime with primary emphasis on individual-oriented theories; consideration of the offender and his community context as problems for rehabilitation efforts; criticism of typical treatment programs.

107-3 Law Enforcement and Community Problems. Examination of the functions of police agency as a part of the social system of the community; analysis of the impact of community problems on police activities and responsibilities; traffic control, patterns, civil disturbance, use of suppressive tactics to deal with vice, and so on.

109-3 Correctional Institution as a Social System. Evaluation of the correctional institution as a sociocultural environment with social interaction struc-

tured by systems of roles, statuses, and norms to achieve goals set by the administration, employees, and inmates.

111-3 Community Organization and the Offender. Study of the community as a social psychological phenomenon and as a network of social institutions with special reference to the problems of promoting the integration of the offender as a participant and client for services.

113-3 Corrections and the Community. Study of the problems of the released prisoner; inter-relationship between institutional programs and his subsequent experiences; and the place and function of parole, pre-release centers, and halfway houses.

115-9 (3,3,3) Interpersonal Relations. (a) Delineation of the major patterns characteristic of relationships between prisoners and employees at the lowest level of staff; analysis of social and psychological techniques for making such relationships a means for positive behavior change of inmates. (b) Delineation of the major patterns characteristic of relationships between pre-delinquents or offenders and staff of community-based programs; analysis of means of encouraging the development of internalized controls by offenders within the relatively free environment of the average community. (c) Analysis of the fundamental problems of police relationships when situations call for persuasive techniques; discussion of principles pertinent to motivating law observance without coercion; study of the techniques of suspect interrogation, consideration of creating favorable public image of policemen.

203-4 Group Work Techniques. Exploration of the theories and procedures of enlisting group influence to modify attitudes and behavior.

205-4 Principles of Investigation. Study of major phases of criminal investigation: gathering and preservation of evidence, identification of offenders, apprehension, recovery of stolen property, and presentation of evidence; survey of criminalistics.

207-3 Assessment in Criminology. Introduction to the problems of differentiating offenders from non-offenders and of differentiating the various classes of offenders; utilization of scientific techniques for such purposes; study of principles for organizing and writing case studies to make individualized reports available for effective disposition of offender cases.

209-3 Law and Corrections. Applications of legal principles to procedures characteristic of correctional institutions and extramural treatment programs; laws associated with arrangement, appeal, habeas corpus, detainers, parole, loss of civil rights, pardon, conditions of release in community short of imprisonment, and similar matters.

211-3 Law and Police Work. Consideration of legal aspects of police work: Law of arrest, search and seizure, entrapment and informers, civil rights of suspect, wire-tapping, interrogation, evidence; examination of court procedures with special reference to implications for policemen.

213-3 Specialized Problems in Crime Control. Intensive probing of selected problems areas through employment of concepts learned in previous courses as a means of deepening understanding. The instructor will select topics such as prison industries; drain or asset on rehabilitation programs, the alcoholic as a parolee, the functions of the prison chaplain, conflicting role demands of police work, etc.

215-9 Supervised Practice in Criminology. Exposure of the student to an unfamiliar role in a correctional agency to give him the opportunity to test his classroom learning in an empirical setting under competent supervision.

217-3 Correctional Administration. Introduction to the management functions and recurrent problems of correctional administration; consideration of the means of balancing organizational change and stability; study of major aspects of management such as personnel, budgeting, inter-agency coordination, leadership, program-planning, and decision-making.

219-3 Administering Community Service. Examination of problems and techniques associated with operating extramural treatment programs; inter-agency coordination, consensus among specialists in an inter-disciplinary approach, problems of referral. "Reaching the unreached," citizen participation, community development, and balancing flexibility and organizational consistency.

221-3 Police Administration. Study of organizational patterns and management problems, recruitment, training, discipline, allocation of functions, and budget; assessment of affects of localization of government, restriction of police power, and political factors.

Data Processing (DP)

101-10 (5,5) Automatic Data Processing Machines. The development of data processing systems covering the history of, need for, and function of automatic data processing equipment. (a) Basic machine operation, functional wiring principles, and computer programming concepts. (b) Advanced control-panel wiring problems (not required for DP majors). Must be taken in a,b sequence.

103-10 (5,5) Computer Programming. Technical experience in using a stored program computer. (a) Emphasis on the machine, its components and logical function. Programming problems and exercises in 1401 Autocodes. (b) Magnetic Disk problems using IOCS. Prerequisite: 101a.

104-5 Data Processing Applications. A study of typical business data processing applications. Authentic case studies show how machines are used as a system in processing data. Topics include billing, accounts receivable, accounts payable, inventory control, and payroll. Prerequisite: 101a.

107-3 Automatic Data Processing Concepts. Function and operation of basic data processing machines, their application to business problems, and elements of computer programming (not for DP majors).

109-3 Punched Card Preparation. The functions and operations of punched card equipment. Card punching and verifying.

202-10 (5,5) Industrial Computer Programming. Industrial computer applications using (a) FORTRAN IV for 360/40 DOS and (b) APT/ADPT, a numerical control language. A field trip is normally taken during part b. Prerequisites: 103a, Mathematics 111a.

203-15 (5,5,5) Business Computer Programming. Business computer programming problems involving magnetic tape and disk records using the IBM System 360 Model 40 Disk Operation System. Provides a workable knowledge of the capabilities, programming procedures, and coding techniques for the following languages: (a) 360 Assembler Language; (b) 360 COBOL; (c) 360 PI/I, APL, and other advanced level languages. Must be taken in a,b,c sequence. Prerequisites: 103a, 206a.

205-5 Systems Design and Development. The three phases in the evolution of a system, analysis of present data flow, system specifications and equipment selection, and implementation and documentation. Case studies from single applications to the total information system of a large, complex business. Prerequisite: 104.

206-10 (5,5) Program Operating Systems. Provides a working knowledge of current operating systems so that one may use any specific system with a minimum of instruction. Operating systems are analyzed to determine their capabilities and function with emphasis on the Disk Operating System. (a) An introduction to System 360 and a working knowledge of the associated R.P.G. (Report Program Generator). (b) An advanced system course with emphasis on DOS utility programs, system generation, and system maintenance. Must be taken in a,b sequence. Prerequisite: 103a.

207-5 Data Processing Field Project. Each student selects a suitable project in the University's Data Processing and Computing Center, or other approved facility, during his last quarter. Coordination of his activity is by an appropriate member of the Data Processing faculty; evaluation of his performance is by the manager of the cooperating center in conjunction with the academic adviser. Prerequisite: 206-10.

Dental Hygiene (DH)

130-2 Orientation to Dental Hygiene. Survey of dental hygiene from anatomy through dental caries, oral diseases, public health, dental health education, and the history of dental hygiene.

132-8 (4,4) Head and Neck Anatomy. (a) Structures of the oral cavity with particular emphasis on gross anatomic features, such as skull, muscles, vessels, nerves, and specialized groups of structures, with a view to their pertinence to dental hygiene. (b) Close study of all teeth and reproduction in wax, natural size. Demonstrations and lectures on the normal and abnormal gingiva and perio-dental attachment. Must be taken in a,b sequence.

135-11 (4,4,3) Oral Basic Science. The microscopic structure of oral tissues, the normal and abnormal microbial flora of the oral cavity, and the appearance and symptomatology of the oral tissues and organs during disease processes. (a) The microscopic structure of the cells and tissues of the oral region. Illustrated lectures. (b) Basic microbiology with emphasis on the micro-organisms found in the oral cavity in health and disease. Lecture and laboratory. (c) Basic symptoms of inflammation in body tissues, and the appearance of disease entities and developmental disturbances in the oral tissues and structures. Lecture and laboratory. Must be taken in a,b,c sequence.

137-8 (4,4) Preclinical Dental Hygiene. Introduction to clinical practice. (a) A study of the instruments used in prophylaxis, scaling techniques, and familiarization with clinical routine. (b) Manikin practice in scaling, portepolishing, and tooth-brushing techniques, followed by practice scaling and polishing on a student-partnership basis. Must be taken in a,b sequence.

139-3 Dental Nutrition. A study of the nutritional needs, dietary patterns, selection and preparation of healthful foods, and their relation to general and oral health.

140-2 Dental Pharmacology. Introduction to classes and types of drugs, action on body tissues and organs, specific dental remedies and formulae, and first-aid procedure for poisons. Must be taken concurrently with 139. Prerequisite: General Studies 115-8.

209-5 Dental Hygiene Clinic. Dental hygiene clinical practice, with particular emphasis on children, including the mentally and physically handicapped and selected adult patients. Prerequisite: sophomore status in the dental hygiene concentration.

210-15 (5,5,5) Clinical Dental Hygiene. Clinical practice on patients with additional lecture and seminar periods. (a) Introduction to clinical dental hygiene practice. (b) Clinical practice for adults and children. (c) Clinical practice and preparation for State and National Board Examinations. Must be taken in a,b,c sequence. Prerequisites: 132, 137, 139, 140, GSA 301, and sophomore standing in dental hygiene.

213-6 (3,3) Dental Assisting. Principles of chair-side assisting, the science of dental materials, and basic dental laboratory procedures. (a) Assisting the dentist at the chair and manipulation of restorative materials. (b) Assisting the dentist in the laboratory with study and use of laboratory materials. Must be taken in a,b sequence. Prerequisites: General Studies 115-8, sophomore standing in dental hygiene.

216-4 (2,2) Dental Administration and Practice. (a) Dental ethics, office administration, and general dental practice. (b) The role of the hygienist in special practices, the history of dentistry, specialties of dentistry, state regulations, and preparation for licensing examinations. Guest lecturers are utilized in specialty areas. Must be taken in a,b sequence.

217-2 Dental Health Education. Each student presents talks and demonstrations, leads discussions and seminars, and gives visual presentations of the basic principles of dental health. Visits to selected schools, area health clinics, and suitable dental meetings. Prerequisites: GSB 201c, GSD 101, 102, sophomore standing in dental hygiene.

218-6 (2,2,2) Clinical Dental Roentgenology. Instruction in the production, use, and protection of X-radiation. (a) Theory and production of X-rays; radiation dosage and protection. (b) Technics of angulation, exposure, processing, and mounting of bite-wing X-ray films. (c) Technic of full-mouth surveys, longcone exposure technic, and extra-oral exposures. Must be taken in a,b,c sequence. Prerequisites: 132, 137, General Studies 115-8, GSA 301, sophomore standing in dental hygiene.

220-3 Dental Public Health. Introduction to public health organization. Detailed study of public health dentistry and dental public health administration, practice, and research. Emphasis upon the relationship of dentistry and dental hygiene practice to the community.

Dental Laboratory Technology (DT)

101-18 (6,6,6) Dental Prosthetics Laboratory. (a) Reproduction of tooth forms by drawings, and carvings in plaster and wax. (b) Removable denture construction including wire bending, soldering, surveying, and casting. (c) Com-

plete denture construction including bite blocks, recording mandibular movements, setting up full dentures in bilateral balance, carving and festooning, processing of acrylic resins and metal bases, tooth selection. Must be taken in a,b,c sequence, concurrently with corresponding section 125.

113-6 (3,3) Science of Dental Materials. (a) Principles of physical science with emphasis on structures and behavior of materials used in dentistry. (b) Lectures and demonstrations on the techniques of preparing restorative materials for the dentist. Includes training for temporary or emergency duty as a chair assistant and in the preparation of amalgam, silicate cement, zinc phosphate cement, self curing acrylic resins, and temporary restorative materials. May be taken in a,b or b,a sequence. Prerequisite: (b) General Studies 115a, dental hygiene student.

125-9 (3,3,3) Dental Prosthetics Theory. (a) A detailed study of individual tooth form and surface anatomy with emphasis on the relationship of form to function and on nomenclature, introduction to the theory of occlusion. (b) Partial denture design including wire and cast construction, the use of the surveyor, and casting techniques. (c) Study of articulation, set up and balance of dentures, artificial tooth form and selection, acrylic resins, and metal bases. Must be taken in a,b,c sequence, concurrently with a corresponding section of 101.

128-2 Oral Anatomy. Detailed study of the parts and functions of the temporomandibular articulation: surface oral tissues and the underlying supporting tissues; and supporting structures for bridge abutments.

201-18 (6,6,6) Crown and Bridgework Laboratory. (a) The practice of gold inlays, crowns, veneers, pontics, and small bridges, carving, investment casting, soldering, and polishing. (b) Practice of advanced types of crown and bridge-work and mouth rehabilitation as it involves laboratory procedures. (c) Dental ceramics, precision attachments, dental porcelains, platinum matrices, shadings, staining and glazing, precision attachments used in removable bridge-work. Must be taken in a,b,c sequence, concurrently with a corresponding section of 225.

202-2 Professional Ethics. Required of the technician within his own craft organization. The ethics necessary in dealing and cooperation with the dental profession. Legal requirements of the technician and the dental laboratory.

225-9 (3,3,3) Crown and Bridgework Theory. (a) Introduction to crown and bridgework, carving, investing, casting, soldering, and polishing. (b) A study of advanced crown and bridgework and mouth rehabilitation. (c) A study of ceramics, precision attachments, and porcelain jacket crowns. Must be taken in a,b,c sequence, concurrently with a corresponding section of 201.

Electronics Technology (ELT)

101-12 (4,4,4) Basic Electronic Applications and Systems. Combination lecture, demonstration, and laboratory. (a) AC, DC. (b) Vacuum tube and transistor. (c) Transmitter and receiver. Must be taken in a,b,c sequence, concurrently with a corresponding section of 125.

125-15 (5,5,5) Basic Electronic Theory. A lecture course. (a) AC, DC. (b) Vacuum tube and transistor. (c) Transmitter and receiver. Must be taken in a,b,c sequence, concurrently with a corresponding section of 101.

127-3 Basic Technological Concepts. An introduction to the technological concepts which are basic to the study of electronics: primary and secondary standards, instrument calibration, estimates of error, manuals, blue print reading, drawing, the standard department-wide data sheet and laboratory report format, use of the technical library, term paper, use of laboratory instruments, slide rule use, how to present data in tables, graphs and nomographs, empirical equations, orientation to industrial practices, specifications, ratings, derating, evaluation testing. Must be taken concurrently with 101a.

129-3 Electrical Circuits. Graphical and vector representation of AC wave, vector algebra, resonance, Q and band width, filters, electrical power plant, alternators, generators, power transmission, transformers, AC-DC motors, AC to DC and DC to AC power conversion. Must be taken concurrently with 101b.

131-3 Diagnostic Analysis. Blue print (diagram) reading of electronic systems, block diagram analysis of systems, effects on the systems caused by defective components, diagnostic problem solving. Must be taken concurrently with 101c.

139-3 Computer Systems Application. Provides the content essential for developing a working knowledge of digital computers, logic circuits, and system components. Special emphasis on applying computer circuitry to individual applications. Prerequisite: 225b.

141-5 Electrical Distribution I. Electric presentation; nomenclature and use of pole line hardware; practice in climbing, in handling ropes, slings, and riggings; wood pole study, pole stress strains, pole handling, pole hole digging, pole setting, aligning, tamping, framing crossarms, insulation; and wire studies. Prerequisites: 125a,b, 129.

145-12 Electrical Field Work I. Field work provides meaningful experiences similar to those in this line of work. Reports are made. Prerequisites: 141 and a C average.

201-12 (4,4,4) Advanced Electronic Applications. Combination lecture and demonstration on microwave circuits. (a) Transistor circuits. (b) Pulse and microwave circuits. (c) Voltage regulators, industrial amplifiers, bridges, photocell motor controls, and synchro servo systems. Must be taken in a,b,c sequence, concurrently with a corresponding section of 225.

225-15 (5,5,5) Advanced Industrial Systems Theory. (a) Transistor circuits. (b) Pulse and microwaves circuits. (c) Voltage regulators, industrial amplifiers, bridges, photocell, motor controls, and synchro servo systems. Must be taken in a,b,c sequence, concurrently with a corresponding section of 201.

228-3 Federal Communications Commission License. A theory course for summarizing work in electronics and for preparation to take the second-class FCC license test. Examination is not required to be taken at an FCC examining point. Prerequisites: 101c, 125c.

229-3 Color Television.

232-3 Industrial Circuits.

241-5 Electrical Distribution II. Theory and practice of line layout and connecting, control of sagging and vibration, equipment grounding, energizing and de-energizing lines, anchoring, guying, safety devices and practice, nomenclature, and use of hot line tools. Prerequisite: 141.

243-6 Electrical Field Work II. Field work provides meaningful experiences similar to those in this line of work. Reports are made. Prerequisite: 145.

245-5 Electro-Mechanical. Theory and practice with electromechanical tools and simple controls, instrumentation, and systems controls. Prerequisite: 241.

247-5 Electrical Systems Controls. Theory and practice with protective devices, voltage regulators, transformers, and controls, voltage and current calculations, systems study with emphasis on automatic controls. Prerequisite: 245.

249-3 Electrical Industry Practice. Includes the necessary safety practices and orients the student for his job in the electrical industry. Prerequisite: 245.

Forest Products Technology (FP)

101-15 (5,5,5) Production Woodworking Laboratory. Practical experience in production woodworking including machine operation, cabinet making, millwork, and furniture construction. (a) Machines. (b) Cabinet and millwork. (c) Furniture. Must be taken in a,b,c sequence, or consent of adviser.

125-9 (3,3,3) Production Woodworking Theory. Fundamentals of production woodworking, machine characteristics, millwork procedure, furniture construction, safety, estimating, scheduling. Lecture and field trips. (a) Machines. (b) Millwork. (c) Furniture. Must be taken in a,b,c sequence, or consent of adviser.

128-4 Wood Technology. Study of the structure, identification, and physical properties of wood.

129-3 Wood Finishing. Principles of wood finishing systems and materials.

130-3 Lumber Seasoning. Wood-moisture relations, air drying, and kiln drying theory and practice. A full size kiln at the Wood Products Pilot Plant is available for practical seasoning work.

131-2 Lumber Grading. Study and practice of the National Hardwood, Southern Pines, and West Coast rules. Tally methods and grading for special products.

178-3 Basic Woodworking Drafting. Conveying ideas by means of freehand sketches, orthographic projections including auxiliary, isometric, and oblique projections, dimensioning, as applied to detail and assembly working drawings in the woodworking industries.

179-3 Furniture Drafting and Design. A study of furniture design and the development of working drawings and blueprints as applied to furniture construction.

201-15 (5,5,5) Production Woodworking Laboratory. Practical experience in light frame construction, prefabrication, laminating, foremanship, production processes. (a) Light frame. (b) Prefabrication. (c) Production processes. Prerequisite: 101a. Must be taken in a,b,c sequence, or consent of adviser.

225-9 (3,3,3) Production Woodworking Theory. Advance machine operating problems, light frame construction, prefabrication adhesives, estimating, scheduling, job analysis, safety, leadership problems. Lecture and field trips. (a) Light frame. (b) Prefabrication. (c) Processes. Must be taken in a,b,c sequence, or consent of adviser. Prerequisite: 125a.

232-2 Wood Preservation. Wood preservatives: their use, limitations, and methods of application.

250-3 Plant Organization and Operation. Study of the organization and layout of woodworking plants; materials handling methods; safety programs; organization and management of personnel; motion and time studies, quality control, purchasing, inventory, industrial costs. Prerequisite: 101-15 and 201-15 or consent of adviser.

General (GEN)

101-3 Business Correspondence. A brief review of fundamentals and a complete study of letter forms and letter mechanics. Various types of business letters and report writing with adequate practice in writing application, sales, adjustment, inquiry, and credit letters. Prerequisite: GSD 101.

102-3 Technical Writing. Development of an understanding of basic principles and proficiency in the skills involved in writing the technical report.

103-0 Elementary Mathematics. A refresher or remedial course, which includes a review of the mathematical foundations necessary to take college-level mathematics courses.

105-6 (3,3) Business and Technical Mathematics. (a) The use of mathematics in modern business as involved in calculation such as: interest rates, amortization schedules, discounts, mark-up, payroll computations. (b) A study of mathematics with specific emphasis on the technical needs of the students. Includes logarithms, slide rule, algebra. Prerequisite: satisfactory ACT mathematics score or 103. May be taken in a,b or b,a sequence.

115-8 (4,4) Introduction to Chemistry. (a) A study of the structure of matter including a survey of the common elements and compounds and the changes during chemical reactions. Also a study of inorganic acids, bases, salts, solutions, the periodic tables, equation balancing, and the metric system. (b) A study of the chemistry of organic compounds, carbohydrates, proteins, and lipids relating them specifically to body functions. Also the chemistry of digestion, metabolism, respiration, blood enzymes, hormones, and vitamins. Must be taken in a,b sequence. Prerequisite: consent of adviser.

118-4 Applied Calculus. A study of calculus specifically oriented towards the needs of the technician. Includes a study of the functions, graphical methods of the calculus, the derivative and its applications, and the integral and its applications. Prerequisite: Mathematics 111a.

120-4 Basic Applied Physics. A study of those phases of physics dealing with heat, magnetism, and electricity. Lecture and laboratory. Prerequisites: 105b, GSA 101a.

136-5 Introductory Sociology. Interrelationships of personality, social organization, and culture; major social processes; structure and organization of social groups.

141-5 Introduction to Physiology. A survey of the functions of the human body for students desiring basic but comprehensive knowledge of human physiology.

201-2 Job Orientation. Special instructional sessions offered on personality, clothing, job application, and professional ethics. Preparation of a portfolio consisting of a personal data sheet, an analysis of prospective employing firms, sample letters of application, and an acceptance or refusal. Practice in being interviewed by representatives of business and industry.

232-4 Labor Management Relations Problems. Personnel policies, selection and employment, employee benefits, labor organizations and governmental activ-

ities, employee-employer relations, grievance procedure, wage and salary standards, and use of practical industrial psychology.

Highway and Civil Technology (HCT)

101-13 (5,3,5) Surveying. (a) Principles of surveying, operation and care of surveying instruments and equipment, field notes, measurement of distance, the transit, traverses and elementary triangulation, leveling, stadia, elementary map surveys, adjustments of transit and level. (b) Introduction to control and distribution of errors, computation of areas and volumes from field notes, reduction and plotting of field notes, U.S. public land surveys, city surveys. (c) Horizontal and vertical curves, construction surveying, advanced surveying instruments, celestial observations. Must be taken in a,b,c sequence.

103-3 Basic Materials. Physical properties and uses of materials commonly encountered in heavy and highway construction. Examples are ferrous and nonferrous metals and products, wood, stone, brick, plastics, cements.

105-6 (3,3) Structural Drafting. (a) Application of drafting techniques to the preparation of working drawings for structural steel construction. The relationship between engineering, shop, and erection drawings is studied. Laboratory work consists of the preparation of drawings from given design data. (b) Preparation of reinforced concrete working drawings. Engineering, detailing, and placing drawings are prepared from given design data. Prerequisite: AD 110a.

107-3 Soils. Types of soils, exploration and sampling methods, laboratory tests to determine characteristics and classification. Test procedures are based on ASTM and AASHTO recommendations. Examples of tests are sieve analysis, hydrometer analysis, Atterburg limits, specific gravity determination, moisture-density relationships.

109-3 Portland Cement Concrete. Aggregate, materials sampling and testing, concrete mix design, material handling and storage. Examples of tests are aggregate, slum, unit weight determination, air content, flexural and compressive strength.

202-12 (8,4) Cooperative Work Experience. Full-time training in the University approved organization engaged in work directly related to civil technology. Examples are state and county highway departments, contractors, engineers, material suppliers, and testing laboratories. Weekly reports and a term report are required. Periodic discussions are led by the coordinator and attended by other students. Training includes work commensurate with ability learned in school and wider experience obtained from actual association with a civil construction project. Prerequisite: first three quarters in program.

203-5 Hydraulics and Drainage. Static and pressures; flow in pressure conduits, flow in open channels, run-off collection systems, materials and methods of sanitary and drainage construction. Prerequisite: Mathematics 111-10.

205-2 Bituminous Materials. Aggregates, bituminous materials, bituminous concrete, paving, construction methods and equipment. Laboratory tests.

207-8 (5,3) Civil Construction. (a) Construction methods and equipment, field organization, planning methods, estimating, development of unit costs, proposal preparation, contracts and specifications. (b) Continuation of a, special emphasis on reinforced concrete and structural steel. Must be taken in a,b sequence.

209-5 Route Surveying. Basic principles governing the design and location of transportation systems with particular attention to highways; circular, compound, and reverse curves; spirals, parabolic curves; earthwork; ground and aerial survey methods. Prerequisite: 101-13.

213-5 Roadway Design and Construction. Elements of roadways, subgrade, base course, pavements, drainage, design, construction, and maintenance. Laboratory work consists of design of a section of roadway with drawings, calculations, estimate sheets, and other pertinent items.

Library and Audio-Visual Technology (LAV)

101-4 Library Technical Services (Order). The preparation of orders for books and non-book materials: the necessary files, equipment, and simple bookkeeping procedures.

103-3 Library Technical and Public Services. Introduction to the broad field of library work, with basic information about the principal fields of library service and types of libraries. Study of current trends in libraries and opportunities in the field at the sub-professional level.

105-2 Introduction to Technology. An overview, to increase awareness of the role and functions of technology in contemporary life. Basic introduction to technical aspects of the media field.

107-4 General Reference. Evaluation, selection, and use of reference sources. Principles and methods of reference service. Prerequisites: 101, 103, 105.

109-3 Organization of Library Materials. System and function of a library based on component parts and devices. Organization of function and services for utmost efficiency. Prerequisites: 101, 103, 105.

111-4 Cataloging of Non-Book Materials. The classification, cataloging, preparation, and circulation of all types of non-book materials such as films, film strips, slides, etc. Prerequisites: 107, 109.

113-3 Library Public Service (Circulation Systems). The charging and discharging of books and other library materials, receiving of application forms, the keeping of library statistics, and contacts with borrowers. Prereq.: 107, 109.

201-4 Binding, Repair, and Mending of Library Material. The preparation of books and periodicals for the bindery and the proper mending and care that can be done without commercial help. Prerequisites: 111, 113.

203-3 Preparation of Graphic Materials. Provides basic skills in the preparation of graphic materials. Prerequisites: 111, 113.

209-12 (4,4,4) Library Internship. Ten hours per week of supervised training and work experience in an approved library and audio-visual aid department and resource center. Prerequisite: first three quarters.

211-4 Library Technical Services (Serials). Introduction to the duties connected with ordering, bookkeeping, check-in, claiming, preparation for binding, file organization of serial publication. Prerequisites: 201, 203.

213-3 Elements of Photography. Develops understanding of photography as a tool of communication and develops the necessary skills to use photography to further this understanding. Prerequisite: 203.

215-3 Multimedia Techniques. A study of the technical aspects and use and operation of multimedia equipment, with attention given to maintenance, distribution, and sources. Prerequisite: 213.

217-3 Seminar and Problems. Seminar integrates the library courses and intern practice of the preceding quarters. Special problems are assigned for investigation, reporting, and group discussion. Prerequisite: 209-12.

Machine Drafting and Design Technology (MT)

101-21 (7,7,7) Graphics. (a) Multiview and pictorial drawing and sketching involving sections, single auxiliaries, dimensions, fasteners, and assemblies. (b) Descriptive geometry and welding specifications with applications to working drawings. Inking. (c) Principles and practices in making, changing, and reproducing complete sets of drawings for both unit and mass production. Lecture and laboratory. Must be taken in a,b,c sequence.

127-3 Electrical, Hydraulic, and Pneumatic Controls. A study of A.S.A. and A.I.E.E. standard electrical symbols; J.I.C. electrical, hydraulic, and pneumatic standards and nomenclature, the basic principles of machines. Practical application achieved by the preparation of electrical and hydraulic drawings including layouts and schematic and single line drawings. Laboratory and lecture. Prerequisites: 101a, General Studies 105, or consent of adviser.

175-10 (3,3,4) Technical Drawing. (a) Principles of orthographic projections, conventional representations and symbols, dimensioning, and sketching. (b) The use of instruments for working drawings including sectional and auxiliary views, threads and fasteners, details and assemblies, welding, and precision dimensioning. (c) The drawings of jigs, fixtures, and special tools. Must be taken in a,b,c sequence.

201-17 (5,5,7) Machine Drafting and Design. (a) Assigned problems involving the analysis of motions required and the selection of suitable mechanisms. (b) Determination of forces and the selection of materials and proportions to withstand the forces applied. (c) Designing of tools, dies, jigs, and fixtures. Outside work and preparation are necessary. Prerequisite: (a) 101-21, 225 and

Mathematics 111-10 concurrently or consent of adviser. (b) 127 and 226a concurrently, or consent of adviser. (c) 227 concurrently, or consent of adviser. **225-3 Kinematics.** A study of the motions required in various machines and the mechanisms which may be used to produce the desired motions, with special attention to automatic controls. Prerequisites: 101-21 and Mathematics 111a, and MT 201a concurrently or consent of adviser.

226-5 (2,3) Statics and Strength of Materials. (a) A study of the forces acting on the various parts of machines. (b) The determination of suitable materials and proportions for those parts of machines. Must be taken in a,b sequence. Prerequisites: (a) 201a concurrently, Mathematics 111b, or consent of adviser. (b) 201b concurrently, or consent of adviser.

227-3 Tool Design. A study of the principles of production machine tooling involving the design of cutting tools, tool holders, dies, jigs, and fixtures for use with machine tools such as punch presses, drill presses, turret lathes, automatic screw machines, and grinding machines. Prerequisite: 201c concurrently, or consent of adviser.

Mortuary Science (MS)

101-6 (3,3) The Funeral—History and Customs. (a) History and customs of the funeral from ancient times through modern practices. (b) History of American funeral directing up to the present date, including current events.

110-4 Embalming Chemistry. Chemistry of the body, sanitation, toxicology, chemical change in cadavers, disinfection, and embalming fluids. Prerequisite: introductory course in chemistry.

202-6 (3,3) Restorative Art. (a) Anatomical modeling; theories, methods, and techniques; design proportions; cranial and facial anatomy; restorative treatment. (b) Color theory, psychological effect of color, cosmetology; cosmetic materials, techniques, color and design; physical effect of colors upon forms. Lecture and laboratory.

203-3 Introduction to Embalming. Orientation and technique. A study of the body, sanitation, disinfection, and embalming fluids.

205-6 (3,3) Pathology. A study of the morbid changes that take place in human tissue as a result of disease processes. Must be taken in a,b sequence. Prerequisite: GSA 301.

206-5 Introductory Microbiology. Survey of microbiology; morphology, structure physiology, and populations of microbial organisms; microbial destruction, immunology, and pathogenic agents.

208-2 Public Health, Laws and Regulations. Basic principles and practices of public health administration. Organization and functions of agencies at federal, state, and local levels, which are engaged in the preservation and protection of public health. The funeral director's responsibilities and relationships to local boards of health and the State Department of Public Health.

210-6 (3,3) Psychology of Funeral Services. (a) Interpersonal relations as they affect the funeral service practitioner and specific publics; communication skills, applied psychology for funeral services. (b) Psychological principles relative to the funeral director in client consultation. A study of psychology of grief.

225-15 (5,5,5) Embalming Theory and Practice. Theory, practices, and techniques of sanitation and preservation as related to the care of deceased human bodies. Lecture and laboratory. Must be taken in a,b,c sequence. Prerequisite: 203.

250-5 Mortuary Management. A study of the problems involved in the practice of funeral management. Current practices and procedures in the direction of funerals. Funeral home operation and records. Laws, ethics, and professional regulations. Must be taken in a,b sequence.

275-10 Funeral Service Internship. The student will spend one quarter in a University-approved Illinois funeral establishment learning in actual practice situations, functional organization, procedures, and policies of the establishment. He will perform duties and services as assigned by preceptor and coordinator to include surveillance of and participation in the execution of total services rendered to a minimum of ten clients. Service reports and a project report are required. Prerequisite: all other requirements of the mortuary science curriculum must be met.

280-2 Funeral Service Seminar. Formal discussions, conducted by the coordinator of the program, to evaluate the experiences and progress of the participants in the internship program. Must be taken concurrently with 275.

Physical Therapy (PTH)

100-3 (1,1,1) Physical Therapy Orientation. General orientation to the profession: historical background, professional ethics, introduction to allied medical professions, and an introduction to patient care. Opportunities for clinical observation.

200-3 Physical Therapy Science Practicum. Lecture and laboratory. Physical therapy treatment techniques in a clinical setting. Emphasis on demonstration of patients with various disabilities. Prerequisite: 100-3.

201-2 Psychology of the Aged. Study of emotional and behavior problems of the older age group. Special reference to understanding the behavior problems that accompany specific medical problems. Prerequisite: Psychology 301-4.

203-2 Pathology. Introduction to pathological conditions which exist in disease and injury. Prerequisites: GSA 301, Physiology 300-4.

205-3 Physical Therapy Science. Lectures by specialists from various fields of medicine with emphasis on conditions of particular significance to the physical therapist. Prerequisite: 100-3.

206-1 Medical Records. Introduces the student to medical records and prepares him to keep adequate records of his patients.

207-2 Massage. Lectures on the effects, indications, contraindications, and techniques of massage. Laboratory practice to develop skills. Prerequisites: GSA 301, Physiology 300-4.

209-3 Therapeutic Exercise I. Includes general exercise principles and their application to pathological conditions, muscle testing, tests and measurements, posture and body mechanics, and techniques of facilitating desired neuromuscular responses. Laboratory provides the opportunity to apply various techniques of exercise on the normal person and the patient. Prerequisites: Physical Education 303, Physiology 300.

211-3 Physical Rehabilitative Techniques. Rehabilitative nursing techniques, activities for daily living, and measurement, adjustment, and training in the use of appliances and equipment used by the disabled. Prerequisites: Physical Education 303, Physiology 300.

213-3 Therapeutic Modalities. Lectures, demonstrations, laboratory, and clinical practice on the use of various modalities used in physical therapy: heat, cold, light, water, electricity, and sound. Prerequisites: GSA 101-8, 301.

215-3 Pharmacology. Introduction to pharmacology. Action and use of drugs in disabilities which are of concern to the physical therapist. Prerequisites: GSA 101-8.

221-6 Clinical Internship. Closely supervised training experience in a general hospital and a rehabilitation facility through which the student may apply previously learned theories and techniques for patient care. The clinical training period follows, the completion of six quarters of academic work. Prerequisite: All other requirements of physical therapy curriculum must be met.

222-2 Clinical Seminar. Formal discussions, conducted by the coordinator of the program, to evaluate the experiences and progress of the participants in the internship program. Must be taken concurrently with 221.

Printing Technology (PT)

101-18 (6,6,6) Presswork Laboratory. (a) Composition and automatic presswork. Type forms are set and prepared for two-color register printing. Operation and care of automatic platen and cylinder presses. (b) Elements of offset presswork and camera work. Copy preparation, stripping of flats, plate making, and darkroom and camera procedures. (c) Advanced elements of offset work. Stripping of multiple-page forms, advanced imposition problems, and multiple color work. Must be taken in a,b,c sequence, concurrently with a corresponding section of 125.

125-9 (3,3,3) Presswork Theory. (a) Composition and automatic presswork. Procedures for single and multiple forms. Uses of hand and machine composi-

tion. (b) Elements of offset presswork and camera work. Comparisons of offset and letterpress with advantages and disadvantages of each. (c) Advanced offset problems. Different methods of reproducing copy in offset production. Must be taken in a,b,c sequence, concurrently with a corresponding section of 101. **153-3 Printing Layout and Design.** A study of type faces and their appropriate uses. Comparison of good and poor design. Preparation of layouts for jobs being currently printed in the shop.

201-18 (6,6,6) Composition Laboratory. (a) Principles of Linotype and Intertype operation, with emphasis on touch system. Practice in many types of machine composition. (b) Advanced Linotype and elements of Ludlow operation, with the application of tabular and broached rule composition. Operations of Ludlow type caster. (c) Advanced production printing, letterpress and offset. Application of the techniques learned in relation to real jobs in the shop. Paper drill, stitcher, and cutter are used. Must be taken in a,b,c sequence, concurrently with a corresponding section of 225. Prerequisites: 101a, 125a.

225-9 (3,3,3) Composition Theory. (a) A study of the correct keyboard system for slug-casting machines, word division, and straight-matter composition. (b) Advanced Linotype and Intertype maintenance, adjustments, and advance keyboard problems, operational procedures of the Ludlow type caster. (c) Procedures for the planning and production of printing; a study of the kinds of ink, paper, and other supplies needed for both letterpress and offset printing. Must be taken in a,b,c sequence, concurrently with a corresponding section of 201. Prerequisites: 101a, 125a.

235-2 Printing Theory and Practice. Fundamentals of offset printing, for commercial art students. Practical instruction in lithographic copy, layout and plate making, operation of lithographic presses, camera work and dark-room processes, and the solving of copy, plate, and presswork troubles. Prerequisites: Commercial Art 210a, 230a.

251-3 Estimating and Cost in Printing. How to estimate the costs of ink, paper, and presswork time necessary to produce a printed job. Must be taken concurrently with 201c and 225c.

Secretarial (SCR)

100-3 Clerical Procedures. Nonstenographic skills in record-keeping are practiced by preparing stock records, perpetual inventories, invoices, bills of lading, checks, receipts, and statements; by auditing invoices; and by proving petty cash.

101-9 (3,3,3) Typewriting. (a) Introduction to touch typewriting techniques and attainment of a minimum net typewriting rate of 30 words per minute. Simple business correspondence, tables, and manuscripts. No credit for students who have had one year or more of typewriting instruction. (b) Building typewriting manipulative skill by increasing speed to 40 words per minute and developing control. All basic letter styles are practiced. Skill proficiency is developed through timed production assignments, varying from 20 to 30 minutes in length, and through development of numbers and special symbols. (c) Development of typewriting skills and knowledges with a minimum net typewriting rate of 50 words per minute. Special business communication forms and styles are introduced and practiced by attainment of a higher level of skill in timed production work. Must be taken in a,b,c sequence.

104-18 (6,6,6) Shorthand. (a) An introduction for beginning shorthand students, utilizing demonstration; drills on word lists; practice in reading materials; intensive drills on brief forms, phrases, and word families; and practice in taking sustained dictation at a minimum of 60 words per minute for five minutes. No credit for students who have had one year or more of shorthand instruction. Students with a deficiency in shorthand theory may audit this course. (b) Vocabulary, brief forms, word families, English fundamentals, punctuation, spelling aids, English vocabulary building. Emphasis on dictation, speed building, mailable transcripts, office-style transcripts, and sustained dictation at a minimum rate of 80 words per minute. A transcription rate of 20-25 words per minute for a 30-minute period is attained. Much emphasis is placed on spelling, punctuation, and English usage on all transcripts. (c) A further development of dictation and transcription skills. The minimum sustained dictation rate is 100 words per minute and a transcription rate of 25-30. Must be taken in a,b,c sequence.

107-3 Filing and Duplicating. Basic principles of modern filing systems, alphabetic, subject, numeric, and geographic. Students work with practice filing equipment, learning the rules of indexing, cross referencing, coding, chargeouts, color devices, and setting up a modern system. Basic principles and practice on multiple copy machines. Prerequisite: 101a or consent of adviser.

112-4 Jury Charge. Dictation of the Court charges to a jury, opinions, comments of court, counsel to jury, and counsel to court is given so that students will develop speed, accuracy, and vocabulary in taking dictation. Transcripts are made of some of the instructions to the jury, and these transcripts are checked for accuracy.

120-18 (6,6,6) Machine Shorthand. (a) A study of the principles of machine shorthand theory with emphasis and intensive drill of brief forms, phrases, and word families. Correct reading and writing techniques are emphasized. Dictation speeds are gradually increased to a minimum 60 words per minute for 5 minutes. Students with one or more years' machine shorthand instruction receive no credit. (b) Provides for learning an automatic vocabulary of brief forms, special forms, and word families. Writing practices on familiar materials and introduction of new material in dictation. Sustained writing situations are gradually introduced. Dictation speeds are gradually increased to a minimum of 80 words per minute for 5 minutes. Introduction to the principles of stenograph machines transcription, placement of letters, spelling, vocabulary building, application of grammar, transcription of business letters and reports according to modern business office standards. (c) Dictation speeds to a minimum of 120 words per minute for 5 minutes are required. Intensive drill on brief forms and word families and office-style dictation situations are presented. Must be taken in a,b,c sequence.

125-3 Personality Development. Special instructional sessions on personal hygiene, personality, poise and charm, clothing, and professional ethics.

150-2 Legal Ethics. Lectures by professional personnel (judges, attorneys, court and conference reporters, and faculty) on code of ethics required by the court and conference reporters.

205-6 (3,3) Typewriting. (a) Application of typewriting skills and theory to problem situations with a minimum net typewriting rate of 60 words per minute required. Special statistical reports, duplication procedures, legal typewriting problems, tabulation of unarranged materials, employment typewriting test, and accounting reports. (b) The development of a minimum net typewriting rate of 70 words per minute. Office-style production assignments measure skill performance. Must be taken in a,b sequence. Prerequisite: 101c.

206-3 Machine Transcription. Develops a high degree of skill in transcribing directly from voicewriting machines. Students receive practice in transcribing business letters, interoffice memorandums, and numerous business forms. Mailability is stressed. Prerequisite: 101b.

209-12 (6,6) Shorthand. (a) Emphasis on dictation and transcription leading to mailable copy according to modern business standards. A minimum sustained dictation rate of 110 words per minute is attained, and a transcription rate from 30 to 35 words per minute is attained for a 30-minute period. Spelling, punctuation, and English usage are emphasized on the sustained dictation transcripts, office-style transcripts, cold-notes transcripts, and mailable copy transcripts. Attention is given to shortcuts, most-used business phrases, common business words and terms, spelling, English fundamentals, and theory. (b) Development of dictation and transcription skills leading to attractive and mailable transcribed copies. A minimum sustained dictation rate of 120 words per minute is attained, and a transcription rate of 30-45 words per minute is attained for a 30-minute period. Development of transcription skills from high-speed dictation notes using business, commercial, and industrial vocabulary. Attention is given to word usage, sentence structure, punctuation, and spelling. Must be taken in a,b sequence.

210-4 Two-Voice Testimony. Dictation of alternating questions and answers to give the student practice in taking dictation under conditions which occur in court procedure. Fluency in reading back testimony and accuracy of written transcripts are stressed daily.

214-4 to 10 (2 to 5, 2 to 5) Cooperative Secretarial Experience. (a) Students in Executive Secretarial or Medical Secretarial gain experience by spending a portion of each day working in an executive or medical office. (b) Students in Legal Secretarial or Court and Conference Reporting gain experience by

spending a portion of each day working in a legal office or assigned directly to a licensed court reporter. All positions must be approved by faculty chairman.

220-10 (5,5) Machine Shorthand. The final drive to build dictation speeds to a minimum of 200 words per minute. A culmination of all the machine shorthand classes to attain minimum dictation and transcription speeds required for the state reporters' examination passage. Must be taken in a,b sequence.

223-5 Secretarial Office Procedures. Prepares the college-level student for any secretarial position. Analyzes the secretarial profession and stresses the personal qualities needed for success in it, including human relations and good grooming. Includes specialized secretarial duties such as transmitting mail, handling incoming mail, processing telegraphic messages; receiving callers, and using the telephone; planning travel and recording meetings; using copying and duplicating machines. Stresses the latest and most efficient secretarial procedures.

224-6 Legal Shorthand. Dictation, involving special legal terms; vocabulary building; shortcuts in writing legal terms either in Gregg shorthand or in machine shorthand. Transcription from dictation notes special to the work of a legal secretary. Work in preparation of briefs and legal documents with State of Illinois Standard Form.

225-12 (6,6) Medical Shorthand. (a) Advanced dictation involving medical terminology, phrasing, and vocabulary. Special terms and definitions are used in preview consultation reports that are dictated for transcription. Emphasis on definitions, spelling, and shorthand writing of medical prefixes and suffixes.

(b) Increasing speed and proficiency in the writing of medical case histories. Emphasis on phrases and special terms. Medical secretarial techniques are stressed. Emphasis on increasing speed and proficiency of medical transcripts.

230-6 (3,3) Testimony and Depositions. Stresses correct techniques of taking two-voice testimony and four-or-more-voice testimony. Both legal and medical vocabulary is stressed via tapes, records, and live voice dictation to develop State of Illinois speed requirement of 200 words per minute for 5 minutes. Transcripts are checked for verbatim accuracy at least twice weekly. Must be taken in a,b sequence.

235-6 (3,3) Advanced Legal Dictation. Includes dictation of charges to the jury. Legal vocabulary is stressed and increased. Attainment of a minimum speed of 160 words per minute for 5 minutes. Must be taken in a,b sequence.

Tool and Manufacturing Technology (TT)

101-15 (5,5,5) Machine Tool Laboratory. Supervised instruction. (a) Drill press, bench-work, engine lathe. (b) Advanced engine lathe, shaper, and milling machines. (c) Milling machine and grinder. Must be taken in a,b,c or a,c,b sequence, concurrently with a corresponding section of 125.

125-9 (3,3,3) Machine Tool Theory. (a) Introduction to basic machine tools. (b) Machineability. (c) Milling machine set-ups and tooling selection; grinding wheel safety and selection. Must be taken in a,b,c or a,c,b sequence, concurrently with a corresponding section of 101.

175-3 Basic Machine Shop Practice. Machine shop for the allied trades stressing the use of hand tools, drilling, and basic lathe work.

176-6 (3,3) Manufacturing Processes. (a) Chip machining. (b) Chipless machining. May be taken in a,b or b,a sequence.

201-9 (3,3,3) Advanced Machine Tool Laboratory. Supervised instruction on projects involving: (a) Tool and die work. (b) Production machines. (c) Production tooling and numerical control. May be taken in any sequence, concurrently with a corresponding section of 225. Prerequisite: 101-15.

225-9 (3,3,3) Advanced Machine Tool Theory. (a) Quality control and inspection practices. (b) Process planning—which includes operation analysis, feed and speed calculations, process and machinery selection. (c) Cost estimating and production scheduling. May be taken in any sequence, concurrently with a corresponding section of 201. Prerequisite: 125-9.

275-9 (3,3,3) Metallurgy. (a) Welding metallurgy. The study of the behavior of metals in welding processes with regard to heat transfer, heat affected zones, and grain structures. (b) Ferrous metallurgy. The theory of alloys, study of basic phase diagrams, simple heat treating processes, and microstruc-

tures. (c) Tool steel metallurgy. Study of tool steels with emphasis on selection and heat treatment and relationships to design criteria. Must be taken in a,b or a,b,c or b,c sequence.

Water Resources Technology (WRT)

101-2 Water Resources Technology, Introduction. A broad view of the technological, managerial, operational, and utilization practices in the water resources field. Frequent field trips to further present the full scope of the technology.

103-6 (3,3) Analysis of Water and Wastewater I, II. Laboratory procedures for the determination of water constituents and for the control of treatment processes; practical application of "Standard Methods for the Examination of Water and Waste-Water"; laboratory equipment selection, use, and arrangement; techniques; interpretation and reporting of results. Field visits.

105-3 Hydraulics. Properties of fluids especially waters; hydrostatic principles; pressure and force measurements and determination; fundamental ideas describing the flow of real fluids; use of the continuity, energy, momentum, and head loss equations; basic design and operational ideas for pipe and for open channel flow; flow metering and devices; network flow; pumps and pumping. Laboratory experiments designed to amplify that covered in class.

107-3 Applied Microbiology. Introduction to the scope and history of microbiology; classification of micro organisms; bacterial protozoa, fungi, algae, viruses; microscopy; identification techniques and laboratory procedures for detection and reporting. Limited to organisms in the water resources field; potable and waste. Prerequisites: GEN 115a, GSA 101a.

109-16 (8,8) Supervised Work Experience. Supervised employment with firms, industries, and other organizations through which the participant is subjected to a wide range of experience to better enable him to relate his course work and to aid him in deciding in which particular area of the field he wishes to seek employment. Prerequisite: first three quarters.

201-5 Hydrology and Drainage. Introduction to basic ideas of hydrology; data sources; surface run-off including storm flow and water storage; ground water flow, recovery, or elimination; rational storm drainage formula; storm drainage system design construction and operation; construction methods and materials for wells, storm drains, channels, dams, and weirs. Laboratory work to illustrate ideas expressed. Field trips to illustrate current practices.

203-4 Surveying. Introduction to underlying theory for current engineering and construction surveying practices; tape, level, and transit familiarity; note-keeping and reduction practice; office and field computations; traverses; earthwork; topographic mapping techniques; construction surveying including pipeline and building layout.

205-4 Applied Electricity. Fundamental ideas, terms, and units of electricity; direct current circuits and machines; alternating current circuits and machines; control devices; generating equipment; motors; codes; introduction to electronic principles and devices. Prerequisite: GSA 101-8.

207-3 Legal Aspects. Introduction to basic ideas of contracts for construction, equipment, supplies, and services; codes; Federal and State laws, rules, regulations governing the use of water resources; necessary civil and criminal law to support understanding of the topics covered.

209-8 (4,4) Unit Operations I, II. Theory of basic sanitary engineering water and wastewater treatment processes and study of current design practices and operational techniques; chemical feeding and treatment; flocculation; sedimentation; ion exchange; electrolysis; disinfection; biological treatment; pumps and pumping equipment; solids handling, treatment, and disposal; industrial waste treatment processes. Field and laboratory investigations include comprehensive reports. Prerequisites: 201, GSA 101-8.

211-4 Water Systems. Investigation into the sources, quantities, and quality of raw waters; transmission system materials, design considerations, and operation; treatment systems including managerial and technological organization; distribution system design considerations, operational techniques and materials and equipment; storage of water, fire protection; water works organizations, billing. Prerequisites: 105, Highway and Civil Technology 203.

213-3 Stream Sanitation. Introduction to the basic field, laboratory and office

procedures underlying data collection including understanding of the chemical, physical and biological forces at work in waterways. Field and laboratory investigations include comprehensive reports of activities.

215-4 Wastewater Systems. Investigation into the sources, quantities, quality, and reduction and/or elimination of industrial wastes and sewage; collection system design considerations, materials, and equipment; design consideration and operational techniques of various wastewater treatment plants including managerial and technological organization. Field investigations.

217-3 Industrial Wastes. Investigation into the in-plant sources of liquid wastes, their reduction, transportation, quality measurement and treatment by industry. Field and office investigations. Laboratory analyses. Report writing.

Welding (WEL)

101-15 (5,5,5) Welding Laboratory. (a) Gas welding and cutting processes, use of the oxy-acetylene blowpipe, cutting blowpipe, inert gas welding (TIG), and hard soldering. (b) Metallic arc welding on heavy gauge steel using AC and DC welding machines, introducing all positions in metallic arc welding. (c) Metallic arc welding in all positions with special application to electrodes, ferrous metals, and nonferrous metals. Must be taken in a,b,c or b,c, a sequence concurrently with a corresponding section of 125.

125-15 (5,5,5) Welding Theory. (a) Gas welding and cutting theory involving the use of oxy-acetylene equipment, tungsten inert gas equipment, and hard surfacing and soldering techniques. (b) Theory of metallic arc welding, including types of electrodes, welding machines, techniques, and proper joints with mild steels. (c) Theory of metallic arc welding in ferrous and nonferrous alloys.

175-3 Oxy-Acetylene and Electric Arc Welding. Provides the machinist and other tradesman with enough welding experience to make simple repairs.

OTHER COURSES INCLUDED IN VTI PROGRAMS

The following courses are administered not by the Vocational-Technical Institute but by the General Studies Division, the College of Liberal Arts and Sciences, the College of Education, and the School of Technology. They are, however, required or recommended for VTI Programs. They are listed here for convenience. For the complete list of courses offered in these subject areas and for their descriptions, refer to the Undergraduate Catalog.

Man's Physical Environment and Biological Inheritance (GSA)

101-8 (4,4) Introduction to Physical Science. The aim of this course, given jointly by the departments of Chemistry and Physics, is to introduce the student to a few of the basic concepts underlying the contemporary scientific view of nature, such as the understanding of energy properties, and behavior of matter.

201-8 (4,4) Introductory Biology. Lecture and laboratory on the fundamentals of biological science: the cell and protoplasm, development, inheritance, structure and function of animals and plants, evolution and ecology. Must be taken in a,b, sequence. Prerequisite: GSA first level or Chemistry 110 or 111.

301-4 Principles of Physiology. A comprehensive introductory analysis of the functional machinery of the human body.

Man's Social Inheritance and Social Responsibilities (GSB)

102-8 (4,4) Man and His World. Anthropology: the nature of man; his behavior as the only culture-bearing animal. Geography: description of the content and spatial patterns of the contemporary world.

201-8 (4,4) Behavior and Society. An examination of the variables related to the acquisition of human behavior and social interaction in human institutions.

211-8 (4,4) Political Economy. The functioning of the economy, the theory, organization, and operation of government, and the making of public policy in the economic sphere.

Man's Insights and Appreciations (GSC)

100-3 Music Understanding. Criteria for discriminative music listening as an asset to general culture. An examination of basic materials, techniques, and forms. Three consecutive quarters of music 001a-1 Symphonic Band, 002b-1 Oratorio Chorus, or 003a-1 University Orchestra may be substituted for this course. Prerequisite: two years of appropriate performing experience.

101-3 Art Appreciation. Study of significant achievements in art related to Western culture and contemporary life.

103-3 World Literature for Composition. Reading in English, literary masterpieces of the Western world, to increase the student's competence in reading imaginative literature, to acquaint him with the great ideas and values of the best literature, and to train him to deal with literary materials in his writing. Prerequisite: GSD 102 or appropriate ACT score.

110-9 (3,3,3) An Introduction to Western Humanities. A selection of great works expressing the aesthetic, moral, and religious values of Western man. Sets forth the critical vocabulary of six humanistic disciplines: art, music, philosophy, design, literature, and theater; provides some direct experience of each one; and calls attention to interrelations among the disciplines and between the humanities and other aspects of Western culture. Must be taken in a,b,c sequence.

201-3 Introduction to Drama. Not a history of the drama. The class will read about a dozen plays, modern and ancient, and consider how various dramatic conventions and devices are used to give form and meaning to human experience.

203-3 Drama and the Arts of the Theater. The study of drama as a literary type: the relationship with the theater audience, the role of the theater in Western culture and its relation to other creative arts.

209-4 Modern Literature: Form and Idea. Designed to give the student an interest in and an understanding of the forms, themes, and values of modern American, British, and Continental literature.

210-3 Introduction to Fiction. A study of the chief techniques of fiction and of some of the acceptable criteria for judging fiction. Readings in some of the masterpieces among American and European short story and novel writers.

Organization and Communication of Ideas (GSD)

101-3 English Composition. Basic rhetorical principles in expository writing.

102-3 English Composition. Basic rhetorical principles in expository writing. Prerequisite: 101 or appropriate ACT score.

103-3 Oral Communication of Ideas. The basic principles and techniques of oral communication as applied to everyday speech activities.

Health and Physical Development (GSE)

100-3 (1,1,1) Restricted Physical Education (Men).

101-3 (1,1,1) Swimming (Men). (a) Beginning swimming, (b) Intermediate swimming, (c) Diving.

Chemistry (CHEM)

115-5 Introductory General Chemistry. Equivalent to a year of high school chemistry. For students who have had less than a year of high school chemistry and who require a year or more of college chemistry. May be audited by students who have had a year or more of high school chemistry. Three lectures, four laboratory hours, and one recitation per week.

Government (GOVT)

360-5 Public Administration. Principles and problems of administration on the national, state, and local level. Prerequisite: 231.

Health Education (H ED)

312-4 Emotional Health. Concepts of positive emotional health as related to teacher and parent in terms of influences on the child in the classroom and community.

334s-4 First Aid. Red Cross First Aid Course with lectures, demonstrations, and practical applications. Red Cross Instructor's Certificate given.

401-3 Disease Prevention and Control. A study of the communicable diseases with emphasis on control and principles of prevention, and application of these principles to the individual school and community.

Mathematics (MATH)

111-10 (5,5) College Algebra and Trigonometry. For students who have had intermediate algebra and plane geometry in high school. Must be taken in a,b sequence.

Physical Education for Men (PEM)

100f-1 Methods of Teaching Exercise.

303-5 Kinesiology. Study of joint and muscle action as a basis for the mechanical analysis of human physical movement executed in daily life and in physical education activities and sports. Prerequisites: Physiology 300, GSA 301.

Physiology (PHSL)

300-4 Human Anatomy. Lectures, demonstrations, and periodic observation of the prosected body. Lectures confined to bones, joints, muscles, and nerves. Primarily for students in physical education. Four hours lecture per week.

Psychology (PSYC)

301-4 Child Psychology. A study of the biological and psychological development of the child from birth through puberty, and of relevant research methods and results. Prerequisite: GSB 201c.

305-4 Psychology of Personality. A study of the inferred patterns underlying an individual's unique reactions to his environment. Investigates the motivations, development, and methods of changing these patterns, and how personality processes are studied. Prerequisite: GSB 201c.

Sociology (SOC)

306-4 Social Control. The means and principles of social controls; social institutions as factors in control; techniques of directing social action. Prerequisite: GSB 201b or 301.

372-4 Criminology. The nature of crime; criminal statistics; casual factors; theories and procedures in prevention and treatment. Prerequisite: GSB 201b or 301.

Technical and Industrial Education (TIED)

303-4 Diversified Crafts for Teachers and Recreational Leaders. Experience in constructional activities involving the use of wood, metals, leathers, plastics, reed, raffia, clay, and other materials adaptable to the needs and interests of camp counselors and elementary school leaders. Laboratory.

4 / Faculty

Vocational-Technical Institute

Accounting

Associate Professor John William Cundiff, J.D., C.P.A.
Assistant Professors Chester Johnston, M.A. (*chairman of faculty*)

J. Kenneth Markwell, M.Ed., C.P.A.
Frank Eugene Vaughn, M.S.
Instructor John Kuruc, M.S.

Architectural Technology

Assistant Professors Paul Lougeay, B.S., Registered Architect, (*chairman of faculty*)
Franklin Bassett, B.S.

Joseph Lete, B.S.
Harold Little, B.S., Registered Architect
Clifton Rutledge, M.A.

Automotive Technology

Assistant Professor L. D. Willey, B.S.Ed., (*chairman of faculty*)
Lewis Runkle, M.Ed.
Instructors Paul Jones
James McDonald, B.S.

Joseph G. Kazda, M.S.Ed.
Lecturer James White, B.S.
Assistants in Automotive Technology
Everett Shelton
Charles Romack, B.S.

Aviation Technology

Associate Professor Edmund DaRosa, B.A. (*chairman of faculty*)
Instructors Joseph Schafer, B.S.
Lennart Raymond Ohman, B.S.
Assistants In Robert James Collett

Paul Dean Burkey
Richard Cannon
Donald Lee
Russell William Riter
David Rich

Building Construction Technology

Assistant Professors Paul Lougeay, B.S., (*chairman of faculty*)
Franklin Bassett, B.S.

Joseph Lete, B.S.
Harold Little, B.S.
Clifton Rutledge, M.A.

Commercial Art

Instructors Richard Hoffman, B.F.A., (*chairman of faculty*)
Doris Swayne, B.S.Ed.

Kermit Ruyle
Gertrude Boza

Cooperative Retailing

Associate Professor Walter Elder, M.S. (*chairman of faculty*)
Assistant Professor Ruth H. Soder-

strom, M.S.
Assistant in Cooperative Retailing
Ronald Thompson, B.S.

Corrections and Law Enforcement

Henry Burns, Jr., M.S.

Dental Hygiene

Associate Professor Eleanor Bushee,
D.D.S. (*chairman of faculty*)
Assistant Professors Alan Willis,
D.D.S.

George Cavaness
Assistants in Dental Hygiene
Jane Marie Johnson
Lucille Pierpont

Dental Laboratory Technology

Assistant Professor William Leebens,
D.D.S. (*chairman of faculty*)
Instructors Peter Bykowski, C.D.T.

George Pennock, C.D.T.
Douglas Morr, M.S.
Lecturer Charles Christy, C.D.T.

Electronic Data Processing

Assistant Professor James Robb, M.A.
(*chairman of faculty*)
Assistants in Electronic Data
Processing Robert Dick, B.S.

Richard D. Starkey, A.A.
David Lohmeier
Michael Fitzpatrick

Electronics Technology

Assistant Professors Paul Caldwell,
M.S.Ed. (*chairman of faculty*)
Raymond Schultz
Charles M. Green, M.S.Ed.

Instructor Albert Becker, M.S.
Assistants in Electronics Technology
Edward Barnes, B.S.
Denny Corbell, B.S.

Forest Products Technology

Instructor Harold Osborn, M.S.Ed.
(*chairman of faculty*)

Assistant Professor Alga Carman, M.S.

General

Assistant Professor Jason Collins,
M.S.Ed. (*chairman of faculty*)
Instructors Donald Cunningham, M.S.
Howard Crenshaw, M.S.
James Harbison, M.S.
Arthur Workun, M.S.
Charles Crowe, M.S.
Donald Smith, M.S.
Wangshik Shin, M.S.
Dorothy Bleyer, M.S.
William Venable, M.S.

Eric Beaven, M.S.
Edward Kirby, M.S.
Ronald Choate, M.S.
Alan Cissell, M.S.
Louise Graham, M.S.
Mary Wright, B.S.
Iva Marie Chenoweth, M.S.
Marie Palmer, M.S.
Vivianne Hertz, M.S.
Lecturer Emilyn Morris, M.S.Ed.

Highway and Civil Technology

Assistant Professor Frank Bassett,
B.S. (*chairman of faculty*)

Machine Drafting and Design Technology

Assistant Professors Frank Muhich,
M.S.Ed. (*chairman of faculty*)
Clarence Beauchamp, M.S.

Duncan Lampman, M.S.Ed.
Instructor Eugene Sanders, B.S.

Mortuary Science

Assistant Professors Walter Thorsell,
M.S.Ed. (*chairman of faculty*)

Donald Hertz, M.S.Ed.

Physical Therapy

Instructor Ted Y. Okita, M.A. (*chairman of faculty*)

Printing Technology

Instructors H. E. Cornell, M.S. (*chairman of faculty*)

David Britt, M.S.

Secretarial

Assistant Professors Chester Johnston,
M.A. (*chairman of faculty*)

Winifred Norman, M.S.

Theresa Miriani, M.S.

James Tooley, M.S.

Instructors Margaret Garrison, M.S.

Ronald Leon Case, M.S.

John Kuruc, M.S.

Helen Richey, M.S.

Tool and Manufacturing Technology

Associate Professor Harry Soderstrom,
M.S.

Lelon Traylor, M.S.

Assistant Professors Frank Muhich,
M.S.Ed. (*chairman of faculty*)

Instructor Douglas Murdock, M.S.

Water Resources Technology

Assistant Professor Daniel Cote, M.S.

Welding

Assistant Professors Murnice Dallman,
M.S.Ed. (*chairman of faculty*)

Assistants in Welding

John Griswold, M.S.

Phillip Tregoning

George Williams

Index

- Academic Advisement, 17
- Academic load, 29
- Accounting, program in, 37; courses in, 63; faculty in, 87
- Admission to the University, 13
- Adult education, 3, 4
- Advisement, academic, 17
- Advisory committees, 7
- Architectural technology, program in, 43; courses in, 64; faculty in, 87
- Art, commercial, program in, 30; courses in, 68; faculty in, 87
- Associate degrees, 3
- Associate in Art degree, 30
- Associate in Business degree, 37
- Associate in Technology degree, 43
- Audio-visual, library and, program in, 35, courses in, 76
- Automotive technology, program in, 44; courses in, 65; faculty in, 87
- Aviation electronics, program in, 48
- Aviation technology, program in, 45; courses in, 66; faculty in, 87
- Book Store, 6
- Building construction, program in, 49; courses in, 68; faculty in, 87
- Cafeteria, 6
- Class standing, 24
- Commercial art, program in, 30; courses in, 68; faculty in, 87
- Community services, program in, 32
- Cooperative retailing, program in, 38; courses in, 68; faculty in, 87
- Corrections and law enforcement, program in, 31; courses in, 69; faculty in, 88
- Correspondence credit, 26
- Course descriptions, 63
- Credit, unit of, 29
- Data processing, electronic, program in, 39, 51; courses in, 71; faculty in, 88
- Degrees, 3
- Dental laboratory technology, program in, 50; courses in, 72; faculty in, 88
- Dental hygiene, program in, 33; courses in, 71; faculty in, 88
- Division of Technical and Adult Education, 3
- Electronic data processing, program in, 39, 51; courses in, 71; faculty in, 88
- Electronics technology, program in, 52; courses in, 73; faculty in, 88
- Extension courses, 26
- Faculty, 87
- Fees, 19
- Financial assistance, student, 6
- Forest products technology, program in, 54; courses in, 74; faculty in, 88
- Full-time attendance, 29
- General, courses, 75; faculty, 88
- General Studies requirements, 30
- Grade point average, 24, 27
- Grading system, 21
- Graduation, 28
- Health Service, 6
- Highway & civil technology, program in, 56; courses in, 76; faculty in, 88
- Honors day, 24
- Housing, 6
- Institutional service, program in, 32
- Law enforcement, program in, 31
- Library, 6
- Library and audio-visual, program in, 35; courses in, 76
- Machine drafting and design, program in, 57; courses in, 77; faculty in, 88
- Military experience, credit for, 26
- Mortuary science, program in, 58; courses in, 78; faculty in, 89
- Orientation, 16
- Physical therapy, program in, 36; courses in, 79; faculty in, 88
- Pilot, professional, program in, 47
- Placement Service, 6
- Printing technology, program in, 59; courses in, 79; faculty in, 88
- Probation, scholastic, 27
- Proficiency examinations, 25
- Quarter hour, 29
- Registration, 16, 18
- Residence of students, 20
- Retailing, program in, 38; courses in, 68; faculty in, 87
- Scholastic probation, 24, 27
- Scholastic standing, 23
- Scholastic warning, 27
- Secretarial, program in, 40; courses in, 80; faculty in, 88
- Semester hour, 29
- Special services to students, 6
- Student financial assistance, 6
- Student organizations and activities, 4
- Student work program, 6
- Student residency regulations, 20
- Suspension, scholastic, 37
- Textbook Service, 6
- Tool and manufacturing, program in, 60; courses in, 82; faculty in, 88
- Tuition and fees, 19
- Vocational-Technical Institute, 3
- Water resources technology, program in, 63; courses in, 83; faculty in, 88
- Welding, courses in, 84; faculty in, 88
- Withdrawal from the University, 18
- Work program, student, 6



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Southern Illinois University
Bulletin

Schedule of Classes, Winter Quarter, 1970
Carbondale Campus



This Bulletin

contains the schedule of classes to be offered by the Carbondale Campus for the winter quarter, 1970, at Carbondale, Southern Acres, and Little Grassy Lake. It also provides information relative to admission, advisement, registration, and fees.

Schedule of Classes

Winter, 1970

Carbondale Campus



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Contents

Registration Calendar	iv
Calendar of Events	v
University Calendar	vi
1 GENERAL INFORMATION	1
Admission	1
Registration and Advisement	1
New Students	2
Re-entering Students	2
Current Students, Carbondale Campus	2
Current Students, Edwardsville Campus	3
Payment of Fees	3
Fees for a Regular Quarter	3
Registration for Only Night or Saturday Classes	4
Late Registration	4
Auditing of Courses	4
Program Changes	4
Dropping a Course	5
Changing Fee Status	5
Withdrawing from School	5
Cancellation of Registration	6
Personal Data Changes	6
2 SCHEDULE OF CLASSES	7
Listing of Courses	7
Course Numbers and Hours	7
Prerequisite	7
Section Number, Time, and Days	7
Building and Room Number	8
Temporary Buildings	8
Explanation of Entries	9
<i>Schedule of General Studies Courses</i>	<i>9</i>
General Studies Area A 9	General Studies Area D 36
General Studies Area B 17	General Studies Area E 45
General Studies Area C 27	
<i>Scheduling of Departmental Courses</i>	<i>49</i>
Accounting 49	Elementary Education 69
Aerospace Studies 51	Engineering 71
Agricultural Industries 51	Engineering Technology 74
Animal Industries 52	English 76
Anthropology 53	Finance 78
Applied Science 54	Food & Nutrition 79
Art 55	Foreign Languages 79
Biology 56	Chinese 80
Botany 57	French 80
Business Administration 58	German 81
Chemistry 58	Greek 82
Chinese 80	Italian 83
Cinema and Photography 63	Latin 83
Clothing and Textiles 64	Portuguese 83
Convocation, University 65	Russian 83
Design 65	Spanish 84
Economics 66	Forestry 85
Educational Administration	French 80
and Foundations 67	Geography 86

Geology	87	Physical Education for	
German	81	Women	119
Government	88	Physics	120
Greek	82	Physiology	122
Guidance and Educational		Plant Industries	123
Psychology	90	Portuguese	83
Health Education	91	President's Scholars	124
Higher Education	92	Psychology	124
History	93	Radio-Television	126
Home and Family	94	Recreation and Outdoor	
Home Economics	96	Education	127
Home Economics Education ..	96	Rehabilitation	128
Industrial Technology	96	Religious Studies	129
Instructional Materials	97	Russian	83
Italian	83	Secondary Education	129
Journalism	98	Secretarial and Business	
Latin	83	Education	131
Liberal Arts and Sciences	99	Sociology	132
Management	99	Spanish	84
Marketing	101	Special Education	133
Mathematics	101	Speech	135
Microbiology	105	Speech Pathology and	
Music	106	Audiology	135
Philosophy	116	Technical & Industrial	
Physical Education		Education	136
for Men	117	Theater	137
		Zoology	138
<i>Schedule of Vocational-Technical Institute Courses</i>	140		
General Studies Area A	140	Dental Lab Technology	145
General Studies Area B	140	Electronics Technology	145
General Studies Area D	140	Forest Products Technology ..	146
Mathematics	141	General	146
		Highway and Civil Technology	146
Accounting	141	Machine Drafting and	
Architectural Drafting	142	Design Technology	147
Aviation Technology	142	Mortuary Science	147
Automotive Technology	143	Physical Therapy	147
Building Construction		Practical Nursing	147
Technology	144	Printing Technology	148
Commercial Art	144	Retailing, Cooperative	148
Corrections and Law		Secretarial	148
Enforcement	144	Tool and Manufacturing	
Data Processing	144	Technology	149
Dental Hygiene	145	Welding	149

Registration Calendar

Winter, 1970

Wednesday, October 13–Thursday, January 15.

Registration period for graduate students.

Wednesday, October 8–Friday, December 12.

Advance registration period for all undergraduate students. New students should refer to the Advisement and Registration procedure on page 1 for further procedural information. *All continuing undergraduate students are expected to be registered by Friday, December 12.*

Wednesday, December 17.

Undergraduate students will have their advance registration cancelled if fees are not paid at the Bursar's Office by 4:00 P.M. on this date unless they have received approval for deferred payment.

Beginning-of-Quarter Activities for Undergraduates

The dates listed below from Sunday, January 4, through Wednesday, January 7, are for undergraduates. Graduate students may register through the Graduate School through the second Thursday of the quarter, January 15.

Sunday, January 4.

New Student Orientation.

Residence Halls open.

Monday, January 5.

Advisement and registration for all students not yet registered. This is the last date for regular registration. Late registration fee is charged after this date. No new graduates will be admitted on this day.

Night classes (5:45 P.M. or later) start.

Tuesday, January 6.

Day classes start.

Advisement and registration open only for program changes.

Wednesday, January 7.

Last day for advisement and registration for the winter quarter.

Both registrations and program changes will be processed.

Late registration fee will be charged.

Registration ends at 5 P.M.

Thursday, January 15.

Deadline for payment of fees by students whose fees were deferred. Graduate student registration will be cancelled if fees are not paid by 4:00 P.M.

Friday, January 16.

Last day to withdraw from school to be eligible for a refund of fees.

Friday, January 30.

Last day for undergraduates to withdraw from a course without

receiving a letter grade. Graduate students dropping a course after this date need not be given an evaluative letter grade. Last day to change from credit to audit or vice versa for all students.

Wednesday, March 4.

Last day for making a program change or withdrawing from school except under exceptional circumstances.

Calendar of Events

January

- 5, Monday.** * American College Test (Residual)
- 10, Saturday.** * College Entrance Examination Board
- 12, Monday.** * Test of English as a Foreign Language
- 17, Saturday.** * Graduate Record Examination
 - * Graduate English Test
- 31, Saturday.** * Graduate Student Foreign Language Examination

February

- 7, Saturday.** * Admission Test for Graduate Study in Business
- 14, Saturday.** * American College Test (National)
 - * Law School Admission Test
- 28, Saturday.** * Graduate Record Examination

March

- 7, Saturday.** * College Entrance Examination Board

* Preregistration is required. Applicants should contact the Counseling and Testing Center for details at least four weeks before the test.

University Calendar

<i>WINTER, 1970</i>	Quarter Begins	Monday, January 5 *
	Final Examinations	Monday-Saturday, March 16-21
<i>SPRING, 1970</i>	Quarter Begins	Monday, March 30 *
	Memorial Day Holiday	Friday, May 29
	Final Examinations	Monday-Saturday, June 8-13
	Commencement (Carbondale)	Friday, June 12
	Commencement (Edwardsville)	Saturday, June 13
<i>SUMMER, 1970</i>	Quarter Begins	Monday, June 22 *
	Independence Day Holiday	Friday, July 3
	Final Examinations	Monday-Friday, August 31-September 4
	Commencement (Edwardsville)	Friday, September 4
	Commencement (Carbondale)	Saturday, September 5
<i>FALL, 1970</i>	New Students	Sunday-Tuesday, September 20-22
	Quarter Begins	Tuesday, September 22 *
	Thanksgiving Vacation	Tuesday, 10 P.M.- Monday, 8 A.M., November 24-30
	Final Examinations	Saturday-Friday, December 12-18
<i>WINTER, 1971</i>	Quarter Begins	Monday, January 4 *
	Final Examinations	Saturday-Friday, March 13-19

* Classes begin with the evening classes after 5:30 P.M. on the Carbondale Campus and with the evening classes after 4:30 P.M. on the Edwardsville Campus.

1 / General Information

This bulletin contains the schedule of classes for the winter quarter, 1970, for the Carbondale Campus. It also provides information relative to advisement and registration, fees, and allied information for the Carbondale Campus.

Admission

Inquiries concerning undergraduate admission to the Carbondale Campus should be directed to the Admissions Office; those on the graduate level to the Graduate School. Undergraduate admission applications should be completed at least thirty days in advance of the desired entrance date.

Registration and Advisement

The Carbondale Campus uses an academic advisement system whereby each undergraduate academic unit has a chief academic adviser and a number of assistant advisers selected from the teaching faculty. Undergraduate students entering the University for the first time will receive selective dates from the admission process from which they are to select the preferred date on which they will come to the campus to be advised and to advance register. This includes both freshmen and transfer students. They are not to write for appointments nor are they to come to Carbondale expecting to register unless it is the date indicated for them to do so.

Graduate students will initiate advisement with their advisers, and will complete the registration process at the Graduate School, where all registration forms will be completed and retained. Graduate students will not be required to go through the Registration Center. The registration process is handled at a later time, and the student receives a fee statement by mail. Cancellation of graduate student registrations for non-payment of fees occurs on Thursday, January 15. Graduate students may register during the advance registration period or during the first week of the quarter. No late fee will be assessed during this period. Graduate students who need to make program changes must follow the same procedure as undergraduate students in that these must be personally processed by the graduate students through the Registration Center.

After advisement the student may register for classes. See the registration calendar in this bulletin. Ordinarily registration offices are open from 8:15 to 11:30 A.M. and 1:00 to 4:30 P.M., Monday through Friday, and from 8:30 to 11:30 A.M. on Saturday.

During the registration process the student goes through the Registration Center where the student assigns himself to specific sections of the courses he is to take.

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program change be approved permitting registration in that class.

New Students

Students entering the University for the first time are permitted to advance register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admission.

New undergraduate students, freshmen and transfer, will be expected to advance register on the same date that they come to the campus for advisement. Dates for students to do so will be selective ones in which the students are asked to come to the campus on specific dates as determined by the University. Students should not expect to be advised and registered on the same date they are admitted nor are they to come to the campus for advisement and registration without an appointment. Appointments for advisement and registration will be mailed from and are to be returned to the Registrar's Office.

New graduate students may register during the registration periods indicated on the registration calendars. Arrangements should be cleared with the Graduate School to do so to assure that the appropriate adviser will be available.

Re-Entering Students

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to advance register during the periods outlined in the Registration Calendar. After completing readmission procedures (Admissions Office for undergraduate students and Graduate School for graduate students) advisement appointments should be made at the advisement offices of the academic units into which the students are entering and clearance of the registrations should be completed on that same day at the Registration Center.

Current Students, Carbondale Campus

Students currently registered in the University will be continued in their present curricula unless a change of college or major is made. A change of college or major area of concentration is initiated with the student's adviser. Either change should be made at the time of advisement.

Undergraduate students currently registered in the University will schedule appointments with their adviser. Registrations should be processed through the Registration Center as soon after advisement as possible.

Graduate students in a degree program should make appointments with the departmental adviser for program advisement. Unclassified graduate students preparing for a degree program should contact the departmental adviser for pre-advisement. Unclassified graduate students in other categories may report directly to the Graduate School for registration procedure. Unclassified students who are planning to take qualifying courses must report those courses to the Graduate Admissions office *before* registering each quarter.

Current Students, Edwardsville Campus

Undergraduate students attending the Edwardsville Campus who plan to attend the Carbondale Campus must initiate their registration process by presenting to the Admissions Office at Carbondale either an official transcript of their University record or a letter of good standing from the registrar at the Edwardsville Campus. The reason for reporting to the Admissions Office is to permit the necessary coding changes to be made so that pertinent information about their academic programs, etc., can be up-dated to reflect the change of campus. Graduate students report first to the Graduate School.

Payment of Fees

Undergraduate students receive their fee statements at the time of registration. During the advance registration period students are asked to delay paying their fees in person at the Bursar's Office until the day following registration. This is to permit necessary fee information to reach the Bursar by the time of fee payment. Students will find it easier simply to mail the fee statement along with a check or money order for the proper monetary amount to the Bursar's Office so as to arrive there by the deadline dates which are stated in the Registration Calendar located earlier in this Schedule. If students pay fees in person at the Bursar's Office they receive a Certificate of Registration at that time. When fees are paid by mail the Certificate will be mailed to the address given by the student on the back of his fee statement. Students will receive their printed schedule of classes within one week after the cancellation date. It is important that these forms be carried by the students at all times.

Undergraduate students registering at the start of a quarter must pay fees at the time of registration.

Graduate students receive their fee statements by mail and must clear their fees at the Bursar's Office by 4:00 P.M. on Thursday, January 15.

Fees for A Regular Quarter

The University reserves the right to change fees and to have the change go into effect whenever the proper authorities so determine. Undergraduate students pay the following regular fees:

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident	\$22.00	\$45.00	\$67.00
Tuition Fee—Out of State Resident	(69.00)	(137.00)	(206.00)
Student Welfare and Recreation			
Building Trust Fund Fee	5.00	10.00	15.00
Book Rental Fee	3.00	6.00	8.00
Student Activity Fee	3.50	7.00	10.50
University Center Fee	5.00	5.00	5.00
Athletic Fund Fee	3.00	6.50	10.00
<i>Total</i> —Illinois Resident	\$41.50	\$79.50	\$115.50
<i>Total</i> —Out of State Resident	(88.50)	(171.50)	(254.50)

Students who register for a course for "Audit" or for a non-

credit course will be assessed fees according to the imputed hours of that course. "Imputed hours" is generally the number of hours the class meets per week.

Graduate students do not rent their textbooks and do not pay the book rental fee. They must purchase their books.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status.

The activity fee is prorated according to the number of hours carried. Health Service benefits vary according to the amount paid. In certain instances graduate assistants, research assistants, graduate fellows, or students on fee code 27 may seek permission from the health service to pay the full activity fee even though they are only part time students. Written consent from the Health Service must be presented at the time of registration so that the student may be properly assessed.

Registering for Only Night or Saturday Classes

Students registering for only night and/or Saturday classes may advance register, during regular office hours, the same as other students. Registration offices are also open the first night of each quarter until 6 P.M., and the first Saturday morning of each quarter for the convenience of these students.

Late Registration

A late registration fee will be charged any undergraduate student registering after Monday, January 5. Graduate students will be charged a late fee after the second Thursday of the quarter.

Auditing of Courses

Students may register for courses in an "audit" status. They receive no letter grade and no credit for such courses. An auditor's registration must be marked accordingly. They pay the same fees as though they were registering for credit. They are expected to attend regularly and are to determine from the instructor the amount of work expected of them. If auditing students do not attend regularly, the instructor may determine that the students should not have the audited courses placed on their record cards maintained in the Registrar's Office. Students registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter. Such a change will require the student's academic dean's approval.

Program Changes

Students are officially registered only for those courses appearing on their schedule of classes. Any change therefrom can be made only after fees are paid and must be made through an official program change, which includes the following steps:

1. Initiating the change.

Students report to their advisers for approval and Program Change form completion. Graduate students must also secure approval from the Graduate School. If the change involves only that of changing sections within the same course, this may be done at the Registration Center without the necessity of securing adviser approval.

2. Registration.

Students must take the program change form to the Registration Center after approval by the adviser. If the change involves a program change fee this must be paid at the Bursar's Office and then returned to the Registration Center for completion of the process.

Program changes which involve the adding of a new course to the schedule or the changing of sections must be done by Wednesday, January 7.

Dropping a Course

A program change must be made in order to drop a course. A student may not drop merely by stopping attendance. The last date for dropping a course by an undergraduate student without receiving a letter grade is the last day of the fourth week of a quarter. Graduate students may not necessarily receive a grade for dropping after the fourth week. (Refer to Registration Calendar.)

Changing Fee Status

Students making program changes which result in their moving from one fee status to another will be assessed additional tuition and fees when appropriate. If the change is to reduce the academic load resulting in a lower tuition and fee status, students may apply for the appropriate tuition and fee refund provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University are eligible for a refund. This is usually during the first ten days. For dates refer to the Registration Calendar.

Withdrawing from School

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action. No withdrawal will be permitted after Wednesday, March 4, except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed by Friday, January 16.

A student who advance registers, including paying of fees, and then finds that he cannot attend school must also officially withdraw from school. He may do this by asking the Student Affairs Division to initiate official withdrawal action for him. This must be done by Friday, January 16, if he expects to get a refund.

Cancellation of Registration

An advance registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Dean of Students.

Personal Data Changes

At the time of registration students are asked to review a Biographic Data Sketch containing personal data. Certain items, if in error, may be corrected at that time. Other items which may require some type of verifying evidence, are changed by reporting to the offices listed below.

1. Local Address Change. Housing Office, Graduate School, Registrar's Office, Registration Center or VTI Office.
2. Names Changes, Marital Status Changes, Date of Birth Changes. Records section of the Registrar's Office. Verification is required.
3. Selective Service Data Changes or Information. Enrollment, Fiscal Reports, Registrar's Office.
4. Legal Residence Changes (whether an Illinois or out-of-state resident). Must be requested by completion of the *Application to be Classified an Illinois Resident* form in the Registrar's Office. Before the change is made the student must have met the regulations governing residency status as established by the Board of Trustees.

2 / Schedule of Classes

Listing of Courses

Courses which students are to take to meet the General Studies requirements are listed in the front part of the Schedule of Classes. These courses are listed by the area which they satisfy and within the area by course number and section number.

Departments in which courses are being offered are listed in alphabetical order. Courses within each department are listed in order by course number and section number.

Course Numbers and Hours

The line containing this information shows the number of the course first, followed by the short title and number of hours of credit. Course numbers are three-digit numbers. In some cases the three digits may be followed by a letter which is also part of the course number.

In a variable-hour course the student decides the number of hours for which he is going to register in consultation with his adviser.

The course numbering system is as follows:

000-099	Course not properly in the following categories
100-199	For freshmen
200-299	For sophomores
300-399	For juniors and seniors
400-499	For seniors and graduate students
500-600	For graduate students only

Prerequisite

The prerequisite column lists requirements which must be satisfied before a student registers for the course. These prerequisites may be listed in various ways. Usually they are other courses in the same department, indicated by a course number. A prerequisite in another department is indicated by the department's code letters and the number.

Section Number, Time, and Days

The section number is indicated in the first column. The times given indicate the beginning and ending of each class period. Students registering for courses listed as "to be arranged" may obtain times and days from instructor indicated or, if no instructor is listed, from the department chairman offering the course.

Building and Room Number

The following list of building abbreviations will help in the location of classrooms. Buildings are listed alphabetically according to the code used in the class schedule. Temporary buildings are indicated in the schedule by a four digit number.

If a building contains more than one classroom, then the number of the room follows the building's code name.

CODE:	BUILDING NAME	CODE:	BUILDING NAME
ABBOTT:	Abbott Hall (T.P.)	PARK:	Parkinson Building
AG:	Agriculture Building	PHY SC:	Physical Science Building
ALLYN:	Allyn Building	PIERCE:	Pierce Hall (T.P.)
ALTG:	Altgeld Hall	PULL:	Pulliam Hall (University School)
ARENA:	SIU Arena	PULL I:	Pulliam Hall (Industrial Education Wing)
BAILEY:	Bailey Hall (T.P.)	PULL P:	Pulliam Hall (Physical Education Wing)
BOAT:	Boat Dock	SHRY:	Shryock Auditorium
BROWN:	Brown Hall (T.P.)	STAD:	McAndrew Stadium
CL:	General Classroom Building	TECH A:	Technology Building A
COMM:	Communications Building	TECH B:	Technology Building B
FELTS:	Felts Hall (T.P.)	TECH D:	Technology Building D
GYM:	Gymnasium	TENNIS:	Tennis Courts
HDBALL:	Handball Courts	U CTR:	University Center
H EC:	Home Economics Building	WARREN:	Warren Hall (T.P.)
LAWSON:	Lawson Hall	WHAM:	Wham Education Building
LAKE:	Lake on the Campus	WHLR:	Wheeler Hall
LIB:	Morris Library		
LG:	Little Grassy Lake		
LS 1:	Life Science Building		
L-APS:	Physical Plant		
MAIN:	Old Main		
OBF:	Old Baptist Foundation		

Temporary Buildings

CODE	LOCATION	CODE	LOCATION
0403	1009 S. Forest	0461	811 S. Elizabeth
0412	907 S. Forest	0465	804 S. Elizabeth
0415	807 S. Forest	0481	910 S. Elizabeth
0429	1009 S. Elizabeth	0483	1002 S. Elizabeth
0431	1007 S. Elizabeth	0485	1006 S. Elizabeth
0432	1005 S. Elizabeth	0487	1010 S. Elizabeth
0436	908 S. Forest	0551	CESL
0437	904 S. Forest	0552	CESL
0438	900 S. Forest	0685	506 S. Graham
0442	903 S. Elizabeth	0701	801 S. Washington ..
0448	814 S. Forest	0725	207 E. Pearl
0451	810 S. Forest	0742	204 E. Park
0452	808 S. Forest	0744	208 E. Park
0453	806 S. Forest	0821	2nd Ed. Shops
0831	Farm Machine Shop—Between Physical Science & Forestry buildings.		
0832	Journalism—Between Physical Science & Forestry buildings.		
0833	Journalism Annex—Between Physical Science & Forestry buildings.		
0834	Cinema & Photography—Between Physical Science & Forestry buildings.		

- 0842 Bot-Zool lab.—General Studies—West of Ag. building's North wing.
 0843 Bot-Zool lab.—General Studies—West of Ag. building's North wing.
 0857 Design Main Office—East of Comm. building on Campus Drive.
 0861 General Classroom—Southeast of Comm. building on Campus Drive.
 0862 General Classroom—Southeast of Comm. building on Campus Drive.
 0864 Zoology Annex 2—Northwest of Ag. building's North wing.
 0865 Zoology Annex—Northwest of Ag. building's North wing.
 0871 General Classroom—Southeast of Comm. building on Campus Drive.
 0875 General Classroom—Southeast of Comm. building on Campus Drive.
 0889 901 West Chautauqua.

Explanation of Entries

The entry for each course is arranged as follows:

First Line: The course's identification number is followed by the short title and the number of quarter hours of credit.

Second Line: The prerequisite (if applicable).

Section-Number Lines: The first column lists section numbers for courses offered. Following each section number are the time the class begins and the time it ends. The days on which the class meets, the place where it meets, and the instructor's last name complete the entry.

SCHEDULE OF GENERAL STUDIES COURSES

COURSE & SECTION NO.	TITLE & HOURS	DAYS	BLDG. & RM.	INSTRUCTOR
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General Studies Area A—Man's Physical Environment and Biological Inheritance (GSA)

101A	INTRO-PHYS SCIENCE		04.0 CR	
1	08.00	M W F	PARK	124
	08.00-09.50	T	PARK	317
2	08.00	M W F	PARK	124
	10.00-11.50	T	PARK	317
3	08.00	M W F	PARK	124
	10.00-11.50	M	PARK	317
4	08.00	M W F	PARK	124
	01.00-02.50	T	PARK	317
5	08.00	M W F	PARK	124
	01.00-02.50	T	PARK	317
6	08.00	M W F	PARK	124
	01.00-02.50	W	PARK	317
7	08.00	M W F	PARK	124
	03.00-04.50	W	PARK	317
8	08.00	M W F	PARK	124
	10.00-11.50	TH	PARK	317
9	08.00	M W F	PARK	124
	10.00-11.50	F	PARK	317
10	08.00	M W F	PARK	124
	01.00-02.50	TH	PARK	317
11	08.00	M W F	PARK	124
	10.00-11.50	W	PARK	317
12	08.00	M W F	PARK	124
	01.00-02.50	F	PARK	317
13	10.00	MT THF	PARK	124
14	12.00	TWTHF	PARK	124
15	01.00	TW F	PARK	124
	01.00-02.50	M	PARK	317

GSA

16	01.00	TW F	PARK	124
	01.00-02.50	M	PARK	317
17	01.00	TW F	PARK	124
	03.00-04.50	M	PARK	317
18	01.00	TW F	PARK	124
	08.00-09.50	T	PARK	317
19	01.00	TW F	PARK	124
	10.00-11.50	T	PARK	317
20	01.00	TW F	PARK	124
	03.00-04.50	T	PARK	317
21	01.00	TW F	PARK	124
	10.00-11.50	W	PARK	317
22	01.00	TW F	PARK	124
	03.00-04.50	W	PARK	317
23	01.00	TW F	PARK	124
	08.00-09.50	TH	PARK	317
24	01.00	TW F	PARK	124
	10.00-11.50	TH	PARK	317
25	01.00	TW F	PARK	124
	01.00-02.50	TH	PARK	317
26	01.00	TW F	PARK	124
	03.00-04.50	TH	PARK	317
27	04.00	MTWTH	PARK	124
28	07.35-09.15 PM	M W	PARK	124

GSA 101A - Sects 1-12, 15-26 have three demonstration lectures per week and one two - hour laboratory

GSA 101A- Sects 13, 14, 27, 28 have four demonstration lecture per week

101B INTRO-PHYS SCIENCE
04.0 CR

1	09.00	T TH	PARK	124
	09.00	W F	LAWSON	171
2	10.00	W S	PARK	124
	10.00	T TH	WHAM	105
3	01.00	M TH	PARK	124
	01.00	T	WHAM	105
	01.00	F	LAWSON	151
4	02.00	MTW F	PARK	124
5	05.45-07.25	T TH	PARK	124
6	07.35-09.00 PM	T TH	PARK	124

110A EARTH ENVIRONMENT
04.0 CR

1	10.00	M W F	LAWSON	171	BERTCNI	LOUIS
	12.00-01.50	M	PARK	213		
2	10.00	M W F	LAWSON	171	BERTCNI	LOUIS
	04.00-05.50	M	PARK	213		
3	10.00	M W F	LAWSON	171	BERTCNI	LOUIS
	10.00-11.50	T	PARK	213		
4	10.00	M W F	LAWSON	171	BERTCNI	LOUIS
	02.00-03.50	T	PARK	213		
5	10.00	M W F	LAWSON	171	BERTCNI	LOUIS
	06.00-07.50 PM	T	PARK	213		
6	10.00	M W F	LAWSON	171	BERTCNI	LOUIS
	12.00-01.50	W	PARK	213		
7	10.00	M W F	LAWSON	171	BERTCNI	LOUIS
	04.00-05.50	W	PARK	213		
8	10.00	M W F	LAWSON	171	BERTCNI	LOUIS
	08.00-09.50	TH	PARK	213		
9	10.00	M W F	LAWSON	171	BERTCNI	LOUIS
	12.00-01.50	TH	PARK	213		
10	11.00	M W F	LAWSON	171	BERTCNI	LOUIS
	02.00-03.50	M	PARK	213		
11	11.00	M W F	LAWSON	171	BERTCNI	LOUIS
	08.00-09.50	T	PARK	213		
12	11.00	M W F	LAWSON	171	BERTCNI	LOUIS
	12.00-01.50	T	PARK	213		
13	11.00	M W F	LAWSON	171	BERTCNI	LOUIS
	04.00-05.50	T	PARK	213		
14	11.00	M W F	LAWSON	171	BERTCNI	LOUIS
	08.00-09.50	W	PARK	213		
15	11.00	M W F	LAWSON	171	BERTCNI	LOUIS
	02.00-03.50	W	PARK	213		

16	11.00	M W F	LAWSON	171	BERTONI LOUIS
	06.00-07.50 PM	W	PARK	213	
17	11.00	M W F	LAWSON	171	BERTONI LOUIS
	10.00-11.50	TH	PARK	213	
18	11.00	M W F	LAWSON	171	BERTONI LOUIS
	02.00-03.50	TH	PARK	213	
19	03.00	M W F	LAWSON	171	JONES DAVID L
	08.00-09.50	M	PARK	213	
20	03.00	M W F	LAWSON	171	JONES DAVID L
	10.00-11.50	M	PARK	213	
21	03.00	M W F	LAWSON	171	JONES DAVID L
	06.00-07.50 PM	M	PARK	213	
22	03.00	M W F	LAWSON	171	JONES DAVID L
	10.00-11.50	W	PARK	213	
23	03.00	M W F	LAWSON	171	JONES DAVID L
	04.00-05.50	TH	PARK	213	
24	03.00	M W F	LAWSON	171	JONES DAVID L
	06.00-07.50 PM	TH	PARK	213	
25	03.00	M W F	LAWSON	171	JONES DAVID L
	08.00-09.50	F	PARK	213	
26	03.00	M W F	LAWSON	171	JONES DAVID L
	10.00-11.50	F	PARK	213	
27	03.00	M W F	LAWSON	171	JONES DAVID L
	02.00-03.50	F	PARK	213	
110B	EARTH ENVIRONMENT		04.0 CR		
1	12.00	T THF	LAWSON	151	ENGSTROM JAMES C
	LAB TO BE ARRANGED				
2	01.00	T THF	LAWSON	151	ENGSTROM JAMES C
	LAB TO BE ARRANGED				
3	06.00-07.25 PM	T TH	LAWSON	151	HARRIS STANLEY
	LAB TO BE ARRANGED				
201A	INTRODUCT BIOLOGY		04.0 CR		
	PREREQ GSA FIRST LEVEL OR CHEM 110 OR				
	111				
1	09.00	M W F	LS I	133	
	08.00-09.50	T	0842	101	
2	09.00	M W F	LS I	133	
	04.00-05.50	T	0842	101	
3	09.00	M W F	LS I	133	
	06.00-07.50 PM	T	0842	101	
4	09.00	M W F	LS I	133	
	10.00-11.50	W	0842	101	
5	09.00	M W F	LS I	133	
	08.00-09.50	TH	0842	101	
6	09.00	M W F	LS I	133	
	08.00-09.50	TH	0842	108	
7	09.00	M W F	LS I	133	
	12.00-01.50	TH	0842	101	
8	09.00	M W F	LS I	133	
	04.00-05.50	TH	0842	101	
9	09.00	M W F	LS I	133	
	10.00-11.50	F	0842	101	
10	09.00	M W F	LS I	133	
	10.00-11.50	F	0842	108	
11	01.00	M W F	LS I	133	
	08.00-09.50	T	0842	108	
12	01.00	M W F	LS I	133	
	10.00-11.50	T	0842	108	
13	01.00	M W F	LS I	133	
	02.00-03.50	T	0842	108	
14	01.00	M W F	LS I	133	
	04.00-05.50	T	0842	108	
15	01.00	M W F	LS I	133	
	02.00-03.50	W	0842	101	
16	01.00	M W F	LS I	133	
	02.00-03.50	W	0842	108	
17	01.00	M W F	LS I	133	
	06.00-07.50 PM	W	0842	108	
18	01.00	M W F	LS I	133	
	10.00-11.50	TH	0842	108	
19	01.00	M W F	LS I	133	
	12.00-01.50	TH	0842	108	

GSA

20	01.00	M W F	LS I	133
	02.00-03.50	F	0842	108
21	03.00	M W F	LS I	133
	10.00-11.50	T	0842	101
22	03.00	M W F	LS I	133
	02.00-03.50	T	0842	101
23	03.00	M W F	LS I	133
	08.00-09.50	W	0842	101
24	03.00	M W F	LS I	133
	04.00-05.50	W	0842	101
25	03.00	M W F	LS I	133
	04.00-05.50	W	0842	108
26	03.00	M W F	LS I	133
	10.00-11.50	TH	0842	101
27	03.00	M W F	LS I	133
	02.00-03.50	TH	0842	101
28	03.00	M W F	LS I	133
	06.00-07.50 PM	TH	0842	101
29	03.00	M W F	LS I	133
	08.00-09.50	F	0842	101
30	03.00	M W F	LS I	133
	12.00-01.50	F	0842	101

GSA 201A - There will be an invitational "Honors" laboratory section formed the second week. An interested A or B student should try to keep 4:00-6:00pm Thursday clear

201B INTRODUCT BIOLOGY
PREREQ GSA 201A
04.0 CR

1	09.00	T TH	LS I	133
	08.00-09.50	M F	0843	102
2	09.00	T TH	LS I	133
	10.00-11.50	M F	0843	102
3	09.00	T TH	LS I	133
	12.00-01.50	M F	0843	102
4	09.00	T TH	LS I	133
	04.00-05.50	M W	LS I	132
5	09.00	T TH	LS I	133
	06.00-07.50 PM	M W	0843	102
6	09.00	T TH	LS I	133
	10.00-11.50	T TH	0843	102
7	09.00	T TH	LS I	133
	12.00-01.50	T TH	0843	102
8	09.00	T TH	LS I	133
	02.00-03.50	T TH	0843	102
9	09.00	T TH	LS I	133
	08.00-09.50	W S	0843	102
10	09.00	T TH	LS I	133
	10.00-11.50	W S	0843	102
11	01.00	T TH	LS I	133
	08.00-09.50	M F	0843	104
12	01.00	T TH	LS I	133
	08.00-09.50	M F	LS I	132
13	01.00	T TH	LS I	133
	12.00-01.50	M F	0843	104
14	01.00	T TH	LS I	133
	02.00-03.50	M F	0843	104
15	01.00	T TH	LS I	133
	06.00-07.50 PM	M W	0843	104
16	01.00	T TH	LS I	133
	08.00-09.50	T TH	0843	104
17	01.00	T TH	LS I	133
	02.00-03.50	T TH	0843	104
18	01.00	T TH	LS I	133
	06.00-07.50 PM	T TH	0843	104
19	01.00	T TH	LS I	133
	08.00-09.50	W S	0843	104
20	01.00	T TH	LS I	133
	10.00-11.50	W S	0843	104
21	03.00	T TH	LS I	133
	12.00-01.50	M F	LS I	132

22	03.00	T TH	LS I	133
	02.00-03.50	M F	0843	102
23	03.00	T TH	LS I	133
	06.00-07.50 PM	M W	LS I	132
24	03.00	T TH	LS I	133
	08.00-09.50	T TH	0843	102
25	03.00	T TH	LS I	133
	12.00-01.50	T TH	LS I	132
26	03.00	T TH	LS I	133
	04.00-05.50	T TH	0843	102
27	03.00	T TH	LS I	133
	04.00-05.50	T F	LS I	132
28	03.00	T TH	LS I	133
	06.00-07.50 PM	T TH	0843	102
29	03.00	T TH	LS I	133
	08.00-09.50	W S	LS I	132
30	03.00	T TH	LS I	133
	10.00-11.50	W S	LS I	132
31	05.45-07.25	W	LS I	133
	10.00-11.50	M F	0843	104
32	05.45-07.25	W	LS I	133
	10.00-11.50	M F	LS I	132
33	05.45-07.25	W	LS I	133
	02.00-03.50	M F	LS I	132
34	05.45-07.25	W	LS I	133
	08.00-09.50	T TH	LS I	132
35	05.45-07.25	W	LS I	133
	10.00-11.50	T TH	0843	104
36	05.45-07.25	W	LS I	133
	10.00-11.50	T TH	LS I	132
37	05.45-07.25	W	LS I	133
	12.00-01.50	T TH	0843	104
38	05.45-07.25	W	LS I	133
	02.00-03.50	T TH	LS I	132
39	05.45-07.25	W	LS I	133
	06.00-07.50 PM	T TH	LS I	132

GSA 201B - There will be an invitational "Honors" laboratory section formed the second week. An interested A or B student should try to keep 4:00-6:00pm Tuesday and Thursday clear

210A	INTRO ENVIRON BIOL			04.0 CR
	PREREQ	GSA 110 OR	CHEM 115	
1	08.00	M W F	LAWSON	171
	04.00	M	LS I	308
2	08.00	M W F	LAWSON	171
	02.00	T	LS I	308
3	08.00	M W F	LAWSON	171
	09.00	M	LS I	308
4	08.00	M W F	LAWSON	171
	09.00	T	LS I	308
5	08.00	M W F	LAWSON	171
	10.00	M	LS I	308
6	08.00	M W F	LAWSON	171
	05.45-06.30	T	LS I	308
7	08.00	M W F	LAWSON	171
	03.00	M	LS I	308
8	08.00	M W F	LAWSON	171
	04.00	T	LS I	308
9	08.00	M W F	LAWSON	171
	12.00	M	LS I	308
10	08.00	M W F	LAWSON	171
	12.00	T	LS I	308
11	08.00	M W F	LAWSON	171
	07.30-08.20 PM	M	LS I	308
12	08.00	M W F	LAWSON	171
	08.00	S	LS I	308
13	12.00	M W F	LAWSON	171
	11.00	F	LS I	308
14	12.00	M W F	LAWSON	171
	08.00	TH	LS I	308

GSA

15	12.00	M W F	LAWSON	171
	09.00	W	LS I	308
16	12.00	M W F	LAWSON	171
	09.00	TH	LS I	308
17	12.00	M W F	LAWSON	171
	03.00	W	LS I	308
18	12.00	M W F	LAWSON	171
	03.00	TH	LS I	308
19	12.00	M W F	LAWSON	171
	02.00	W	LS I	308
20	12.00	M W F	LAWSON	171
	11.00	TH	LS I	308
21	12.00	M W F	LAWSON	171
	11.00	W	LS I	308
22	12.00	M W F	LAWSON	171
	12.00	TH	LS I	308
23	12.00	M W F	LAWSON	171
	05.45-07.25	TH	LS I	308
24	12.00	M W F	LAWSON	171
	09.00	S	LS I	308
210B	INTRO ENVIRON BIOL			04.0 CR
	PREREQ GSA 110 OR CHEM 115			
1	10.00	M W	LAWSON	151
	10.00	F	LS I	133
	08.00	M	LS I	308
2	10.00	M W	LAWSON	151
	11.00	M	LS I	308
	10.00	F	LS I	133
3	10.00	M W	LAWSON	151
	01.00	M	LS I	308
	10.00	F	LS I	133
4	10.00	M W	LAWSON	151
	02.00	M	LS I	308
	10.00	F	LS I	133
5	10.00	M W	LAWSON	151
	05.45-06.35	M	LS I	308
	10.00	F	LS I	133
6	10.00	M W	LAWSON	151
	08.00	T	LS I	308
	10.00	F	LS I	133
7	10.00	M W	LAWSON	151
	11.00	T	LS I	308
	10.00	F	LS I	133
8	10.00	M W	LAWSON	151
	01.00	T	LS I	308
	10.00	F	LS I	133
9	10.00	M W	LAWSON	151
	03.00	T	LS I	308
	10.00	F	LS I	133
10	10.00	M W	LAWSON	151
	07.30-08.20 PM	T	LS I	308
	10.00	F	LS I	133
11	03.00	M W F	LAWSON	141
	10.00	T	LS I	308
12	03.00	M W F	LAWSON	141
	10.00	S	LS I	308
13	03.00	M W F	LAWSON	141
	08.00	W	LS I	308
14	03.00	M W F	LAWSON	141
	04.00	W	LS I	308
15	03.00	M W F	LAWSON	141
	10.00	TH	LS I	308
16	03.00	M W F	LAWSON	141
	12.00	W	LS I	308
17	03.00	M W F	LAWSON	141
	01.00	W	LS I	308
18	03.00	M W F	LAWSON	141
	07.30-08.20 PM	TH	LS I	308
19	03.00	M W F	LAWSON	141
	02.00	TH	LS I	308
20	03.00	M W F	LAWSON	141
	04.00	TH	LS I	308

21	03.00	M W F	LAWSON	141	
	05.45-07.25	W	LS I	308	
22	03.00	M W F	LAWSON	141	
	02.00	F	LS I	308	
23	06.00-07.25 PM	T TH	LAWSON	161	
	08.00	F	LS I	308	
24	06.00-07.25 PM	T TH	LAWSON	161	
	11.00	S	LS I	308	
25	06.00-07.25 PM	T TH	LAWSON	161	
	09.00	F	LS I	308	
26	06.00-07.25 PM	T TH	LAWSON	161	
	10.00	F	LS I	308	
27	06.00-07.25 PM	T TH	LAWSON	161	
	12.00	F	LS I	308	
28	06.00-07.25 PM	T TH	LAWSON	161	
	01.00	F	LS I	308	
29	06.00-07.25 PM	T TH	LAWSON	161	
	03.00	F	LS I	308	
30	06.00-07.25 PM	T TH	LAWSON	161	
	04.00	F	LS I	308	
31	06.00-07.25 PM	T TH	LAWSON	161	
	10.00	W	LS I	308	
32	06.00-07.25 PM	T TH	LAWSON	161	
	07.30-08.20 PM	W	LS I	308	
33	06.00-07.25 PM	T TH	LAWSON	161	
	05.45-06.35	M	LS I	205	
34	06.00-07.25 PM	T TH	LAWSON	161	
	01.00	TH	LS I	308	
301	PRIN OF PHYSIOLOGY		04.0 CR		
1	10.00	M F	TECH A	111	GASS GEORGE HIRAM
	11.00-12.50	T	LS I	113	
2	10.00	M F	TECH A	111	GASS GEORGE HIRAM
	12.00-01.50	M	LS I	113	
	10.00	W	LS I	133	
3	10.00	M F	TECH A	111	GASS GEORGE HIRAM
	05.45-07.25	T	LS I	113	
	10.00	W	LS I	133	
4	10.00	M F	TECH A	111	GASS GEORGE HIRAM
	02.00-03.50	W	LS I	113	
	10.00	W	LS I	133	
5	10.00	M F	TECH A	111	GASS GEORGE H
	05.45-07.25	TH	LS I	113	
	10.00	W	LS I	133	
6	10.00	M F	TECH A	111	GASS GEORGE H
	12.00-01.50	F	LS I	113	
	10.00	W	LS I	133	
7	10.00	M F	TECH A	111	GASS GEORGE H
	08.00-09.50	T	LS I	113	
	10.00	W	LS I	133	
8	10.00	M F	TECH A	111	GASS GEORGE H
	08.00-09.50	TH	LS I	113	
	10.00	W	LS I	133	
9	01.00	M W F	TECH A	111	STRACK LOUIS E
	03.00-04.50	M	LS I	113	
10	01.00	M W F	LS I	111	STRACK LOUIS E
	11.00-12.50	TH	LS I	113	
11	01.00	M W F	TECH A	111	STRACK LOUIS E
	03.00-04.50	F	LS I	113	
12	01.00	M W F	TECH A	111	STRACK LOUIS E
	09.00-10.50	W	LS I	113	
13	01.00	M W F	TECH A	111	STRACK LOUIS E
	02.00-03.50	T	LS I	113	
14	01.00	M W F	TECH A	111	STRACK LOUIS E
	02.00-03.50	TH	LS I	113	
15	01.00	M W F	TECH A	111	STRACK LOUIS E
	05.45-07.25	W	LS I	113	
16	01.00	M W F	TECH A	111	STRACK LOUIS E
	08.00-09.50	S	LS I	113	
312	CONS OF NATURAL RES		03.0 CR		
1	02.00	M W	WHAM	105	
	02.00	F	LAWSON	171	
314	MANS GEN HERITAGE		03.0 CR		

GSA

	1	11.00	M W F	LS I	133	ENGLERT
315		HISTORY OF BIOLOGY		03.0	CR	
	1	04.00	T THF	LAWSON	141	GALBREATH EDWIN C
321		INTRO PALEONTOLOGY		03.0	CR	
	1	10.00	W F	PARK	204	FRAUNFELTER GEORGE
		03.00-04.50	M	PARK	107	
	2	10.00	W F	PARK	204	FRAUNFELTER GEORGE
		06.00-07.25 PM	M	PARK	107	
	3	10.00	W F	PARK	204	FRAUNFELTER GEORGE
		07.30-09.00 PM	M	PARK	107	
	4	11.00	T TH	PARK	204	FRAUNFELTER GEORGE
		08.00-09.50	M	PARK	107	
	5	11.00	T TH	PARK	204	FRAUNFELTER GEORGE
		10.00-11.50	M	PARK	107	
	6	11.00	T TH	PARK	204	FRAUNFELTER GEORGE
		01.00-02.50	M	PARK	107	
322		INTR TO ROCKS + MIN		03.0	CR	
	1	09.00	M W	PARK	204	BELL FRANK J
		08.00-09.50	TH	PARK	112	
	2	09.00	M W	PARK	204	BELL FRANK J
		10.00-11.50	TH	PARK	112	
	3	09.00	M W	PARK	204	BELL FRANK J
		12.00-01.50	TH	PARK	112	
	4	03.00	T TH	PARK	204	BELL FRANK J
		04.00-05.50	TH	PARK	112	
	5	03.00	T TH	PARK	204	BELL FRANK J
		06.00-07.50 PM	TH	PARK	112	
330		WEATHER		03.0	CR	
	1	02.00	M W	LAWSON	171	
		12.00	F	AG	116	
	2	02.00	M W	LAWSON	171	
		12.00	F	AG	148	
	3	02.00	M W	LAWSON	171	
		12.00	F	AG	144	
	4	02.00	M W	LAWSON	171	
		01.00	F	AG	214	
	5	02.00	M W	LAWSON	171	
		01.00	F	AG	224	
	6	02.00	M W	LAWSON	171	
		01.00	F	AG	144	
	7	02.00	M W	LAWSON	171	
		02.00	F	AG	188	
	8	02.00	M W	LAWSON	171	
		02.00	F	AG	144	
	9	02.00	M W	LAWSON	171	
		02.00	F	AG	150	
	10	02.00	M W	LAWSON	171	
		03.00	F	AG	214	
	11	02.00	M W	LAWSON	171	
		03.00	F	AG	144	
	12	02.00	M W	LAWSON	171	
		03.00	F	AG	148	
331		CLIMATE		03.0	CR	
	1	10.00	M W	LAWSON	141	
		08.00	F	AG	148	
	2	10.00	M W	LAWSON	141	
		08.00	F	AG	150	
	3	10.00	M W	LAWSON	141	
		08.00	F	AG	144	
	4	10.00	M W	LAWSON	141	
		09.00	F	ARENA	119	
	5	10.00	M W	LAWSON	141	
		09.00	F	AG	140	
	6	10.00	M W	LAWSON	141	
		09.00	F	AG	144	
	7	10.00	M W	LAWSON	141	
		10.00	F	UNIT14	101	
	8	10.00	M W	LAWSON	141	
		10.00	F	AG	140	
	9	10.00	M W	LAWSON	141	
		10.00	F	AG	144	
	10	10.00	M W	LAWSON	141	
		11.00	F	AG	166	

11	10.00	M W	LAWSON	141	
	11.00	F	AG	144	
12	10.00	M W	LAWSON	141	
	11.00	F	AG	148	
340	ECOLOGY		03.0 CR		
1	02.00	M W F	LS I	133	ANDERSON ROGER
345	ECONOMIC BOTANY		03.0 CR		
1	09.00	M W F	LAWSON	121	PORTZ
2	03.00	M W F	LAWSON	121	PORTZ
358A	ANAL OF PHYS SYSTEM		03.0 CR		
	PREREQ 1ST LEVEL	GSA + MATH 111A+B			
1	01.00	T TH	TECH A	111	
	06.00-07.50 PM	TH	TECH D	122	
2	01.00	T TH	TECH A	111	
	06.00-07.50 PM	T	TECH D	122	
3	01.00	T TH	TECH A	111	
	08.00-09.50	T	TECH D	122	
4	01.00	T TH	TECH A	111	
	08.00-09.50	TH	TECH D	122	
358B	ANAL OF PHYS SYSTEM		03.0 CR		
	PREREQ GSA 358A				
1	08.00	T TH	TECH A	111	
	06.00-07.50 PM	M	TECH D	122	
2	08.00	T TH	TECH A	111	
	06.00-07.50 PM	W	TECH D	122	
3	08.00	T TH	TECH A	111	
	06.00-07.25 PM	T	TECH D	122	
4	08.00	T TH	TECH A	111	
	06.00-07.50 PM	TH	TECH D	122	
361	ACOUSTICS OF MUSIC		03.0 CR		
1	12.00	M W	LAWSON	151	GORDON RODERICK D
	12.00	F	LAWSON	161	

General Studies Area B—Man's Social Inheritance and Social Responsibilities (GSB)

101B	SURV-WEST TRADITION		04.0 CR		
1	08.00	M W F	LAWSON	151	MUELLER
	08.00	T	UNIT 8	101	
2	08.00	M W F	LAWSON	151	MUELLER
	12.00	M	UNIT 7	101	
3	08.00	M W F	LAWSON	151	MUELLER
	01.00	W	0861	101	
4	08.00	M W F	LAWSON	151	MUELLER
	02.00	F	UNIT12	101	
5	08.00	M W F	LAWSON	151	MUELLER
	03.00	W	H EC	120	
6	08.00	M W F	LAWSON	151	MUELLER
	04.00	M	UNIT11	101	
7	08.00	M W F	LAWSON	151	MUELLER
	09.00	T	WHLR	107	
8	08.00	M W F	LAWSON	151	MUELLER
	10.00	TH	UNIT 8	101	
9	08.00	M W F	LAWSON	151	MUELLER
	11.00	T	0862	102	
10	08.00	M W F	LAWSON	151	MUELLER
	06.00	PM M	UNIT11	101	
11	08.00	M W F	LAWSON	151	MUELLER
	10.00	T	UNIT 7	101	
12	08.00	M W F	LAWSON	151	MUELLER
	11.00	TH	WHAM	329	
13	02.00	T THF	WHAM	105	BERBERICH
	10.00	W	UNIT 4	101	
14	02.00	T THF	WHAM	105	BERBERICH
	11.00	M	WHAM	312	
15	02.00	T THF	WHAM	105	BERBERICH
	12.00	W	UNIT 7	101	
16	02.00	T THF	WHAM	105	BERBERICH
	01.00	F	PARK	111	
17	02.00	T THF	WHAM	105	BERBERICH
	02.00	M	ABBOTT	129	
18	02.00	T THF	WHAM	105	BERBERICH
	03.00	F	UNIT 8	101	

GSB

19	02.00		T THF	WHAM	105	BERBERICH
	04.00		W	UNIT 6	101	
20	02.00		T THF	WHAM	105	BERBERICH
	08.00		T	UNIT 1	101	
21	02.00		T THF	WHAM	105	BERBERICH
	09.00		TH	0862	102	
22	02.00		T THF	WHAM	105	BERBERICH
	12.00		M	WHLR	203	
23	02.00		T THF	WHAM	105	BERBERICH
	10.00		T	GYM	203	
24	02.00		T THF	WHAM	105	BERBERICH
	11.00		TH	WHAM	112	
101C	SURV-WEST	TRADITION		04.00	CR	
1	09.00		T TH	LAWSON	141	ZUCKER
	09.00		F	LAWSON	151	
	11.00		F	UNIT 14	101	
2	09.00		T TH	LAWSON	141	ZUCKER
	09.00		F	LAWSON	151	
	12.00		M	0875	101	
3	09.00		T TH	LAWSON	141	ZUCKER
	09.00		F	LAWSON	151	
	01.00		W	GYM	203	
4	09.00		T TH	LAWSON	141	ZUCKER
	09.00		F	LAWSON	151	
	02.00		F	UNIT 8	101	
5	09.00		T TH	LAWSON	141	ZUCKER
	09.00		F	LAWSON	151	
	03.00		M	0862	102	
6	09.00		T TH	LAWSON	141	ZUCKER
	09.00		F	LAWSON	151	
	04.00		W	0862	102	
7	09.00		T TH	LAWSON	141	ZUCKER
	09.00		F	LAWSON	151	
	06.00		PM W	UNIT 6	101	
8	09.00		T TH	LAWSON	141	ZUCKER
	09.00		F	LAWSON	151	
	08.00		W	UNIT 11	101	
9	09.00		T TH	LAWSON	141	ZUCKER
	09.00		F	LAWSON	151	
	09.00		W	WHAM	202	
10	09.00		T TH	LAWSON	141	ZUCKER
	09.00		F	LAWSON	151	
	10.00		F	WHAM	303	
11	09.00		T TH	LAWSON	141	ZUCKER
	09.00		F	LAWSON	151	
	06.00		PM TH	UNIT 8	101	
12	09.00		T TH	LAWSON	141	ZUCKER
	09.00		F	LAWSON	151	
	11.00		W	WHAM	301B	
13	11.00		M W F	WHAM	105	MC FARLIN
	08.00		T	UNIT 6	101	
14	11.00		M W F	WHAM	105	MC FARLIN
	09.00		TH	UNIT 5	101	
15	11.00		M W F	WHAM	105	MC FARLIN
	01.00		T	UNIT 6	101	
16	11.00		M W F	WHAM	105	MC FARLIN
	02.00		TH	PARK	111	
17	11.00		M W F	WHAM	105	MC FARLIN
	03.00		W	H EC	201	
18	11.00		M W F	WHAM	105	MC FARLIN
	04.00		T	UNIT 12	101	
19	11.00		M W F	WHAM	105	MC FARLIN
	06.00		PM T	UNIT 7	101	
20	11.00		M W F	WHAM	105	MC FARLIN
	10.00		W	UNIT 5	101	
21	11.00		M W F	WHAM	105	MC FARLIN
	11.00		T	WHLR	214	
22	11.00		M W F	WHAM	105	MC FARLIN
	12.00		TH	UNIT 3	101	
23	11.00		M W F	WHAM	105	MC FARLIN
	09.00		TH	WHLR	214	
24	11.00		M W F	WHAM	105	MC FARLIN
	02.00		T	UNIT 8	101	

25	02.00		T TH	LAWSON	141	DETWILER
	02.00		F	LAWSON	151	
	08.00		M	WHLR	203	
26	02.00		T TH	LAWSON	141	DETWILER
	02.00		F	LAWSON	151	
	09.00		T	UNIT 5	101	
27	02.00		T TH	LAWSON	141	DETWILER
	02.00		F	LAWSON	151	
	10.00		TH	UNIT 3	101	
28	02.00		T TH	LAWSON	141	DETWILER
	02.00		F	LAWSON	151	
	11.00		T	PULL	39	
29	02.00		T TH	LAWSON	141	DETWILER
	02.00		F	LAWSON	151	
	03.00		TH	0862	102	
30	02.00		T TH	LAWSON	141	DETWILER
	02.00		F	LAWSON	151	
	04.00		TH	UNIT12	101	
31	02.00		T TH	LAWSON	141	DETWILER
	02.00		F	LAWSON	151	
	06.00	PM	TH	UNIT 2	101	
32	02.00		T TH	LAWSON	141	DETWILER
	02.00		F	LAWSON	151	
	09.00		T	WHLR	214	
33	02.00		T TH	LAWSON	141	DETWILER
	02.00		F	LAWSON	151	
	01.00		W	PULL	43	
34	02.00		T TH	LAWSON	141	DETWILER
	02.00		F	LAWSON	151	
	02.00		M	UNIT 1	101	
SECT 34 - HONORS SECTION						
35	02.00		T TH	LAWSON	141	DETWILER
	02.00		F	LAWSON	151	
	08.00		T	UNIT 5	101	
36	02.00		T TH	LAWSON	141	DETWILER
	02.00		F	LAWSON	151	
	10.00		TH	GYM	203	
37	03.00		T THF	LAWSON	151	DETWILER
	08.00		F	UNIT 2	101	
38	03.00		T THF	LAWSON	151	DETWILER
	12.00		F	UNIT 1	101	
39	03.00		T THF	LAWSON	151	DETWILER
	01.00		F	H EC	104	
40	03.00		T THF	LAWSON	151	DETWILER
	02.00		F	UNIT 3	101	
41	03.00		T THF	LAWSON	151	DETWILER
	03.00		M	WHAM	307	
42	03.00		T THF	LAWSON	151	DETWILER
	04.00		T	UNIT 8	101	
43	03.00		T THF	LAWSON	151	DETWILER
	06.00	PM	W	UNIT11	101	
44	03.00		T THF	LAWSON	151	DETWILER
	09.00		T	COMM	1022	
45	03.00		T THF	LAWSON	151	DETWILER
	10.00		T	H EC	104	
46	03.00		T THF	LAWSON	151	DETWILER
	11.00		TH	PULL	43A	
47	03.00		T THF	LAWSON	151	DETWILER
	02.00		W	PULL	41	
48	03.00		T THF	LAWSON	151	DETWILER
	03.00		W	WHAM	210	
49	06.00-07.25	PM	M W	LAWSON	151	MCFARLIN
	09.00		F	UNIT11	101	
50	06.00-07.25	PM	M W	LAWSON	151	MCFARLIN
	10.00		M	PIERCE	130	
51	06.00-07.25	PM	M W	LAWSON	151	MCFARLIN
	11.00		W	UNIT 1	101	
52	06.00-07.25	PM	M W	LAWSON	151	MCFARLIN
	12.00		F	0875	102	
53	06.00-07.25	PM	M W	LAWSON	151	MCFARLIN
	06.00	PM	T	UNIT 6	101	
54	06.00-07.25	PM	M W	LAWSON	151	MCFARLIN
	07.30-08.20	PM	M	UNIT11	101	

55	06.00-07.25 PM	M W	LAWSON	151	MC FARLIN
	06.00 PM	TH	UNIT 7	101	
56	06.00-07.25 PM	M W	LAWSON	151	MC FARLIN
	07.30-08.20 PM	W	UNIT 11	101	
57	06.00-07.25 PM	M W	LAWSON	151	MC FARLIN
	02.00	T	UNIT 12	101	
58	06.00-07.25 PM	M W	LAWSON	151	MC FARLIN
	03.00	W	0862	102	
59	06.00-07.25 PM	M W	LAWSON	151	MC FARLIN
	04.00	M	UNIT 9	101	
60	06.00-07.25 PM	M W	LAWSON	151	MC FARLIN
	07.30-08.20 PM	TH	UNIT 6	101	
102A	MAN AND HIS WORLD		04.0	CR	
1	09.00	T THF	LAWSON	161	MULLER J
	08.00	M	H EC	306	
2	09.00	T THF	LAWSON	161	MULLER J
	09.00	M	H EC	306	
3	09.00	T THF	LAWSON	161	MULLER J
	10.00	M	H EC	306	
4	09.00	T THF	LAWSON	161	MULLER J
	11.00	M	H EC	306	
5	09.00	T THF	LAWSON	161	MULLER J
	12.00	M	H EC	306	
6	09.00	T THF	LAWSON	161	MULLER J
	01.00	M	H EC	306	
7	09.00	T THF	LAWSON	161	MULLER J
	02.00	M	H EC	306	
8	09.00	T THF	LAWSON	161	MULLER J
	03.00	M	H EC	306	
9	09.00	T THF	LAWSON	161	MULLER J
	04.00	M	H EC	306	
10	09.00	T THF	LAWSON	161	MULLER J
	08.00	W	H EC	306	
11	09.00	T THF	LAWSON	161	MULLER J
	09.00	W	H EC	306	
12	09.00	T THF	LAWSON	161	MULLER J
	10.00	W	H EC	306	
13	09.00	T THF	LAWSON	161	MULLER J
	11.00	W	H EC	306	
14	01.00	M W F	H EC	122A	N
ENROLLMENT BY PERMISSION ONLY					
15	01.00	M W	LAWSON	151	
	01.00	TH	WHAM	105	
	08.00	T	H EC	104	
16	01.00	M W	LAWSON	151	GUEMPLER D L
	01.00	TH	WHAM	105	
	09.00	T	WHAM	308	
17	01.00	M W	LAWSON	151	GUEMPLER D LEE
	01.00	TH	WHAM	105	
	10.00	T	H EC	208	
18	01.00	M W	LAWSON	151	GUEMPLER D LEE
	01.00	TH	WHAM	105	
	11.00	T	H EC	206	
19	01.00	M W	LAWSON	151	GUEMPLER D LEE
	01.00	TH	WHAM	105	
	12.00	T	H EC	106	
20	01.00	M W	LAWSON	151	GUEMPLER D LEE
	01.00	TH	WHAM	105	
	01.00	T	H EC	106	
21	01.00	M W	LAWSON	151	GUEMPLER D LEE
	01.00	TH	WHAM	105	
	02.00	T	H EC	203	
22	01.00	M W	LAWSON	151	
	01.00	TH	WHAM	105	
	03.00	T	H EC	202	
23	01.00	M W	LAWSON	151	GUEMPLER D LEE
	01.00	TH	WHAM	105	
	04.00	T	H EC	118	
24	01.00	M W	LAWSON	151	GUEMPLER D LEE
	01.00	TH	WHAM	105	
	12.00	F	H EC	306	

25	01.00	M W	LAWSON	151	GUEMPLE D LEE
	01.00	TH	WHAM	105	
	01.00	F	H EC	306	
26	01.00	M W	LAWSON	151	GUEMPLE D LEE
	01.00	TH	WHAM	105	
	02.00	F	H EC	306	
27	01.00	M W	LAWSON	151	GUEMPLE
	01.00	TH	WHAM	105	
	03.00	F	H EC	306	
28	02.00	M W F	H EC	122A	BELMCNT J
ENROLLMENT BY PERMISSION ONLY					
29	03.00	T THF	LAWSON	151	WALKER M
	08.00	T	H EC	306	
30	03.00	T THF	LAWSON	151	WALKER M
	09.00	T	H EC	306	
31	03.00	T THF	LAWSON	151	WALKER M
	10.00	T	H EC	306	
32	03.00	T THF	LAWSON	151	WALKER M
	11.00	T	H EC	306	
33	03.00	T THF	LAWSON	151	WALKER M
	12.00	T	H EC	306	
34	03.00	T THF	LAWSON	151	WALKER M
	01.00	T	H EC	306	
35	03.00	T THF	LAWSON	151	WALKER M
	04.00	W	H EC	306	
36	03.00	T THF	LAWSON	151	WALKER M
	02.00	W	H EC	306	
37	03.00	T THF	LAWSON	151	WALKER M
	03.00	W	H EC	306	
38	03.00	T THF	LAWSON	151	WALKER M
	08.00	TH	H EC	306	
39	03.00	T THF	LAWSON	151	WALKER M
	09.00	TH	H EC	306	
40	03.00	T THF	LAWSON	151	WALKER M
	10.00	TH	H EC	306	
41	03.00	T THF	LAWSON	151	WALKER M
	11.00	TH	H EC	306	
42	04.00	M W F	LAWSON	151	BELMCNT J
	08.00	F	H EC	306	
43	04.00	M W F	LAWSON	151	BELMCNT J
	09.00	F	H EC	306	
44	04.00	M W F	LAWSON	151	BELMCNT J
	10.00	F	H EC	306	
45	04.00	M W F	LAWSON	151	BELMCNT J
	11.00	F	H EC	306	
46	04.00	M W F	LAWSON	151	BELMCNT J
	02.00	T	H EC	306	
47	04.00	M W F	LAWSON	151	BELMCNT J
	03.00	T	H EC	306	
48	04.00	M W F	LAWSON	151	BELMCNT J
	04.00	T	H EC	306	
49	04.00	M W F	LAWSON	151	BELMCNT J
	12.00	W	H EC	306	
50	04.00	M W F	LAWSON	151	BELMCNT J
	01.00	W	H EC	306	
51	04.00	M W F	LAWSON	151	
	12.00	TH	H EC	306	
52	04.00	M W F	LAWSON	151	BELMCNT J
	01.00	TH	H EC	306	
53	04.00	M W F	LAWSON	151	
	02.00	TH	H EC	306	
54	04.00	M W F	LAWSON	151	BELMCNT J
	03.00	TH	H EC	306	
102B	MAN AND HIS WORLD		04.00	CR	
1	08.00	T TH	LAWSON	171	
	08.00	M W	AG	150	
RESTRICTED TO PRES. SCHOLARS					
2	08.00	T TH	LAWSON	171	
	08.00	M W	AG	148	
3	08.00	T TH	LAWSON	171	
	08.00	M W	UNIT14	101	
4	08.00	T TH	LAWSON	171	
TO BE ARRANGED					

5	08.00	T TH	LAWSON	171
	TO BE ARRANGED			
6	08.00	T TH	LAWSON	171
	TO BE ARRANGED			
7	08.00	T TH	LAWSON	171
	TO BE ARRANGED			
8	08.00	T TH	LAWSON	171
	10.00	M W	AG	148
9	08.00	T TH	LAWSON	171
	10.00	M W	AG	144
10	09.00	T TH	LAWSON	171
	TO BE ARRANGED			
11	09.00	T TH	LAWSON	171
	TO BE ARRANGED			
12	09.00	T TH	LAWSON	171
	11.00	M W	AG	148
13	09.00	T TH	LAWSON	171
	12.00	M W	AG	116
14	09.00	T TH	LAWSON	171
	12.00	M W	AG	148
15	09.00	T TH	LAWSON	171
	12.00	M W	AG	144
16	09.00	T TH	LAWSON	171
	TO BE ARRANGED			
17	09.00	T TH	LAWSON	171
	TO BE ARRANGED			
18	09.00	T TH	LAWSON	171
	TO BE ARRANGED			
19	01.00	M W	LAWSON	171
	09.00	T TH	AG	150
20	01.00	M W	LAWSON	171
	09.00	T TH	LS I	323
21	01.00	M W	LAWSON	171
	09.00	T TH	LS I	16
22	01.00	M W	LAWSON	171
	10.00	T TH	PIERCE	130
23	01.00	M W	LAWSON	171
	10.00	T TH	AG	148
24	01.00	M W	LAWSON	171
	10.00	T TH	AG	144
25	01.00	M W	LAWSON	171
	11.00	T TH	TECH A	122
26	01.00	M W	LAWSON	171
	11.00	T TH	TECH A	320
27	01.00	M W	LAWSON	171
	11.00	T TH	AG	148
28	03.00	T TH	LAWSON	171
	02.00	M W	AG	214
29	03.00	T TH	LAWSON	171
	02.00	M W	AG	144
30	03.00	T TH	LAWSON	171
	02.00	M W	PIERCE	130
31	03.00	T TH	LAWSON	171
	03.00	M W	PIERCE	130
32	03.00	T TH	LAWSON	171
	03.00	M W	ABBOTT	129
33	03.00	T TH	LAWSON	171
	03.00	M W	AG	148
34	03.00	T TH	LAWSON	171
	08.00	T TH	PIERCE	130
35	03.00	T TH	LAWSON	171
	08.00	T TH	AG	148
36	03.00	T TH	LAWSON	171
	08.00	T TH	AG	150
37	04.00	M W	LAWSON	171
	12.00	T TH	AG	116
38	04.00	M W	LAWSON	171
	12.00	T TH	AG	148
39	04.00	M W	LAWSON	171
	12.00	T TH	AG	144
40	04.00	M W	LAWSON	171
	01.00	T	AG	154
	01.00	TH	AG	214

41	04.00	M W	LAWSON	171	
	01.00	T TH	AG	150	
42	04.00	M W	LAWSON	171	
	01.00	T TH	AG	148	
43	04.00	M W	LAWSON	171	
	02.00	T TH	AG	148	
44	04.00	M W	LAWSON	171	
	02.00	T TH	AG	144	
2018	SOCIETY + BEHAVIOR		04.0	CR	
1	09.00	T TH	WHAM	105	PATTERSON
	08.00	M W	AG	224	
2	09.00	T TH	WHAM	105	PATTERSON
	09.00	M W	BAILEY	130	
3	09.00	T TH	WHAM	105	PATTERSON
	10.00	M W	BAILEY	130	
4	09.00	T TH	WHAM	105	PATTERSON
	11.00	M W	BAILEY	130	
5	09.00	T TH	WHAM	105	PATTERSON
	12.00	M W	WHAM	112	
6	09.00	T TH	WHAM	105	PATTERSON
	03.00	M W	BAILEY	130	
7	09.00	T TH	WHAM	105	PATTERSON
	03.00	M W	TECH A	308	
8	09.00	T TH	WHAM	105	PATTERSON
	04.00	M W	WHAM	208	
9	10.00	MT THF	LAWSON	201	
10	11.00	MT THF	WHAM	201	
11	12.00	MT THF	LAWSON	221	
12	02.00	T TH	LAWSON	151	PATTERSON
	08.00	W F	GYM	203	
13	02.00	T TH	LAWSON	151	PATTERSON
	09.00	F	LAWSON	221	
	09.00	W	PULL	38	
14	02.00	T TH	LAWSON	151	PATTERSON
	11.00	W F	LAWSON	131	
15	02.00	T TH	LAWSON	151	PATTERSON
	12.00	W F	WHAM	201	
16	02.00	T TH	LAWSON	151	PATTERSON
	12.00	W F	LS I	323	
17	02.00	T TH	LAWSON	151	PATTERSON
	01.00	W F	WOODY	1010	
18	02.00	T TH	LAWSON	151	PATTERSON
	03.00	W F	PARK	111	
19	02.00	T TH	LAWSON	151	PATTERSON
	04.00	W F	WHAM	206	
20	04.00	W	LAWSON	151	NALL
	04.00	F	LAWSON	171	
	08.00	T TH	PARK	111	
21	04.00	W	LAWSON	161	NALL
	04.00	F	LAWSON	171	
	08.00	T TH	WHAM	203	
22	04.00	W	LAWSON	151	NALL
	04.00	F	LAWSON	171	
	10.00	T TH	BAILEY	130	
23	04.00	W	LAWSON	161	NALL
	04.00	F	LAWSON	171	
	10.00	T TH	AG	168	
24	04.00	W	LAWSON	161	NALL
	04.00	F	LAWSON	171	
	11.00	M W	WHAM	112	
25	04.00	W	LAWSON	161	NALL
	04.00	F	LAWSON	171	
	12.00	T TH	WHAM	201	
26	04.00	W	LAWSON	161	NALL
	04.00	F	LAWSON	171	
	01.00	T TH	BAILEY	130	
SECT 26 IS RESERVED FOR PRES SCHOLARS					
27	04.00	W	LAWSON	161	NALL
	04.00	F	LAWSON	171	
	03.00	T TH	BAILEY	130	
28	07.35-09.15 PM	M TH	WHAM	308	
29	07.35-09.15 PM	M TH	WHAM	112	HALL

201C SOCIETY + BEHAVIOR		04.0 CR				
1	11.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	01.00-02.50	W	PULL	39		
2	11.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	06.00-07.50 PM	W	PULL	39		
3	11.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	08.00-09.50	TH	PULL	39		
4	11.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	10.00-11.50	TH	PULL	39		
5	11.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	01.00-02.50	TH	PULL	39		
6	11.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	03.00-04.50	TH	PULL	39		
7	11.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	08.00-09.50	F	PULL	39		
8	11.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	12.00-01.50	F	PULL	39		
9	11.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	08.00-09.50	S	PULL	39		
10	11.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	10.00-11.50	S	PULL	39		
11	04.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	01.00-02.50	W	AG	154		
12	04.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	06.00-07.50 PM	TH	AG	148		
13	04.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	08.00-09.50	TH	ABBOTT	129		
14	04.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	10.00-11.50	TH	ABBOTT	129		
15	04.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	01.00-02.50	TH	AG	154		
16	04.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	03.00-04.50	TH	AG	154		
17	04.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	08.00-09.50	F	AG	158		
18	04.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	12.00-01.50	F	AG	222		
19	04.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	08.00-09.50	S	AG	116		
20	04.00	M W	LAWSON	141	CARRIER NEIL ALAN	
	10.00-11.50	S	AG	116		
21	06.00-07.40 PM	M	LAWSON	141		
	04.00-05.50	W	PULL	39		
22	06.00-07.40 PM	M	LAWSON	141		
	03.00-04.50	W	AG	116		
23	06.00-07.40 PM	M	LAWSON	141		
	06.00-07.50 PM	TH	PULL	39		
24	06.00-07.40 PM	M	LAWSON	141		
	06.00-07.50 PM	W	AG	148		
25	06.00-07.40 PM	M	LAWSON	141		
	10.00-11.50	F	PULL	39		
26	06.00-07.40 PM	M	LAWSON	141		
	10.00-11.50	F	ABBOTT	129		
27	06.00-07.40 PM	M	LAWSON	141		
	01.00-02.50	F	AG	116		
28	06.00-07.40 PM	M	LAWSON	141		
	02.00-03.50	F	AG	222		
29	06.00-07.40 PM	M	LAWSON	141		
	12.00-01.50	F	WHAM	328		
30	06.00-07.40 PM	M	LAWSON	141		
	02.00-03.50	F	WHAM	328		
211A	POLITICAL ECONOMY			04.0 CR		
1	09.00	MTWTH	LAWSON	151	LAYER	
2	05.45-07.25	T TH	LAWSON	201		
ABOVE SECTION IN INTERCUL PROGRAM						
211B	POLITICAL ECONOMY			04.0 CR		
1	10.00	M W F	WHAM	105	KAHN	
	08.00	TH	PULL	41		
2	10.00	M W F	WHAM	105	KAHN	
	08.00	TH	PULL	43		
3	10.00	M W F	WHAM	105	KAHN	
	09.00	T	PULL	41		

4	10.00	M W F	WHAM	105	KAHN
	09.00	TH	PULL	41	
5	10.00	M W F	WHAM	105	KAHN
	10.00	T	PULL	41	
6	10.00	M W F	WHAM	105	KAHN
	10.00	TH	PULL	41	
7	10.00	M W F	WHAM	105	KAHN
	09.00	T	PIERCE	130	
8	10.00	M W F	WHAM	105	KAHN
	09.00	TH	PIERCE	130	
9	10.00	M W F	WHAM	105	KAHN
	11.00	W	WHAM	201	
10	10.00	M W F	WHAM	105	KAHN
	11.00	TH	PULL	41	
11	12.00	MT THF	WHAM	319	
12	01.00	MT THF	PULL	43	
FOR FOREIGN STUDENTS					
13	03.00	M W F	WHAM	105	BAKER
	03.00	TH	PULL	41	
14	03.00	M W F	WHAM	105	BAKER
	03.00	T	PULL	41	
15	03.00	M W F	WHAM	105	BAKER
	03.00	TH	PULL	43A	
16	03.00	M W F	WHAM	105	BAKER
	04.00	T	PULL	43A	
17	03.00	M W F	WHAM	105	BAKER
	04.00	TH	PULL	43A	
18	03.00	M W F	WHAM	105	BAKER
	01.00	TH	WOODY	1010	
19	03.00	M W F	WHAM	105	
	01.00	T	COMM	1017	
20	03.00	M W F	WHAM	105	BAKER
	01.00	TH	PULL	41	
21	03.00	M W F	WHAM	105	BAKER
	02.00	T	WHAM	328	
22	03.00	M W F	WHAM	105	BAKER
	02.00	TH	CL	326	
23	05.45-07.25	M W	CL	109	
24	05.45-07.25	T TH	CL	24	
25	07.35-09.15 PM	M W	CL	109	
26	07.35-09.15 PM	T TH	CL	24	
300A	UNITED STATES HIST		03.0 CR		
1	10.00	MT TH	LS I	133	BATINSKI
2	04.00	T THF	LS I	133	WARREN
300B	UNITED STATES HIST		03.0 CR		
1	08.00	M	WHAM	105	SIMON
	08.00	T TH	LAWSON	151	
2	09.00	M W F	WHAM	105	ADAMS
3	07.35-09.00 PM	T TH	LAWSON	151	WERLICH
300C	UNITED STATES HIST		03.0 CR		
1	10.00	T THF	LAWSON	151	CARRCT
2	02.00	M W F	LAWSON	141	MURPHY
302	LAW CIVIL RIGHTS		03.0 CR		
1	08.00	M W F	PARK	111	GREGORY
303	INTERNATIONAL REL		04.0 CR		
1	08.00	M	LAWSON	221	KLINGBERG
	08.00	T TH	WHLR	113	
	08.00	W	H EC	118	
2	09.00	M W F	PARK	111	STAUBER
	09.00	T	AG	154	
3	12.00	MTWTH	CL	109	ABBASS
4	02.00	T THF	WHAM	228	PAINE JOANN
	02.00	M	AG	154	
5	04.00	MT TH	WHAM	210	LEVINE
	04.00	W	PHY SC	116	
310	CURRENT EVENTS		01.0 CR		
1	10.00	F	LAWSON	141	FCRD JAMES
	08.00	T	AG	116	
2	10.00	F	LAWSON	141	
	08.00	F	WHAM	328	
3	10.00	F	LAWSON	141	
	09.00	M	COMM	2012	

GSB

4	10.00		F	LAWSON	141	
	09.00	T		AG	116	
5	10.00		F	LAWSON	141	
	09.00	TH		AG	154	
6	10.00		F	LAWSON	141	
	11.00	W		H EC	122	
7	10.00		F	LAWSON	141	
	12.00	M		AG	150	
8	10.00		F	LAWSON	141	
	12.00	TH		AG	150	
9	10.00		F	LAWSON	141	
	01.00	W		AG	144	
10	10.00		F	LAWSON	141	
	01.00		F	AG	150	
11	10.00		F	LAWSON	141	
	02.00	TH		AG	224	
12	10.00		F	LAWSON	141	
	03.00	T		AG	144	
311	ECON DEVELOP OF U S					03.0 CR
	PREREQ GSB 101B, CR 211A,B, OR 215					
1	09.00	M W		COMM	1017	ADAMS
	09.00		F	COMM	1018	
2	02.00	M W F		AG	224	ADAMS
312	COMPAR ECON SYSTEMS					03.0 CR
	PREREQ GSB 211A CR 215					
1	09.00	M W F		CL	109	JAM
314	ECON ANAL AG POL US					03.0 CR
	PREREQ GSB 211					
1	09.00		TH	AG	116	HAAG HERMAN M
	02.00	T TH		AG	214	HAAG HERMAN M
2	02.00	W		AG	155	HAAG HERMAN M
	02.00	T TH		AG	214	HAAG HERMAN M
321	SOCIALIZAT OF INDIV					03.0 CR
1	08.00	M W F		COMM	1022	NALL ELIZABETH W
2	10.00	M W F		WHAM	308	NALL
325	RACE + MIN RELATION					03.0 CR
1	02.00	T TH		WHAM	302	DENISE
	02.00	W		WHAM	201	
331	AMER ED SYSTEM					03.0 CR
1	08.00	M W F		WHAM	203	BRACEWELL GEORGE
2	08.00	MT TH		WHAM	201	VINOCUR SAMUEL M
3	09.00	M W F		WHAM	205	NEAL CHARLES D
4	10.00	M W F		WHAM	328	RANNEY JAMES L
5	11.00	M W F		WHAM	205	
6	01.00	M W F		WHAM	205	CLANCY ROBERT A
7	02.00	M W F		WHAM	205	CLANCY ROBERT A
8	03.00	M W F		WHAM	205	ARMISTEAD FRED J
	06.00-07.25 PM	T TH		WHAM	205	RANNEY JAMES L
10	06.00-07.25 PM	M W		WHAM	205	
341	MARRIAGE					03.0 CR
1	01.00	M W F		WHAM	105	SMITH MARGARET R
345	INTR TO AM FGN POL					03.0 CR
1	01.00	M W F		PULL	38	TRIVERS
355	GEOG OF U S					03.0 CR
1	04.00	MT TH		LAWSON	101	
356	GEOG SUB-SAHAR AFR					04.0 CR
1	08.00	MT TH		AG	144	FAIR, DENNIS
361	FUND OF DECIS MAKE					03.0 CR
	PREREQ MATH 111-1C A+B OR GSD 108A +B					
1	02.00	M W F		TECH A	111	
380B	E EUR-PRES INSTITUT					03.0 CR
1	10.00	M W F		LAWSON	101	KAMARASY EGON K
385	CONTEMP POL ISMS					03.0 CR
1	12.00	M W F		LAWSON	131	KAMARASY EGON K
390	INTR TO COMP GOVTS					04.0 CR
1	01.00	M W F		WHAM	208	HARDENBERGH WILLIAM
	01.00	T		LS I	205	
2	02.00	M W F		WHAM	208	DALE RICHARD
	02.00	T		AG	154	
3	04.00	MTWTH		AG	216	RYYA BHATTACHA
392	INTRO L A GOVT POL					03.0 CR
1	02.00	M W F		PARK	111	GARNER WILLIAM R

General Studies Area C—Man's Insights and Appreciations (GSC)

GSC

100	MUSIC UNDERSTANDING			03.0 CR	
1	09.00	M W	LAWSON	151	FLOYD SAMUEL
	08.00	TH	COMM	1037	
2	11.00	M W	LAWSON	161	
	08.00	TH	COMM	1037	
3	12.00	M W	LAWSON	151	
	08.00	TH	COMM	1037	
4	02.00	M W	LAWSON	161	NADAF GEORGE
	08.00	TH	COMM	1037	
101	ART APPRECIATION			03.0 CR	
1	08.00-09.50	T	ALLYN	102	
	10.00	M	ALLYN	102	
	ONE ADDITIONAL HR	TBA			
2	10.00-11.50	T	ALLYN	102	
	09.00	TH	ALLYN	102	
	ONE ADDITIONAL HR	TBA			
3	12.00	T TH	LAWSON	171	
	08.00-09.50	M	ALLYN	102	
4	12.00	T TH	LAWSON	171	
	08.00-09.50	S	ALLYN	106	
5	12.00	T TH	LAWSON	171	
	03.00-04.50	M	ALLYN	102	
6	12.00	T TH	LAWSON	171	
	01.00-02.50	M	ALLYN	102	
7	12.00	T TH	LAWSON	171	
	01.00-02.50	F	ALLYN	102	
8	12.00	T TH	LAWSON	171	
	11.00-12.50	F	ALLYN	102	
9	12.00	T TH	LAWSON	171	
	08.00-09.50	S	ALLYN	102	
10	01.00-02.50	T	ALLYN	102	
	11.00	TH	UNIT 9	101	
	ONE ADDITIONAL HR	TBA			
11	01.00-02.50	TH	ALLYN	102	
	11.00	F	UNIT 2	101	
	ONE ADDITIONAL HR	TBA			
12	02.00	T TH	LAWSON	151	
	11.00-12.50	M	ALLYN	102	
13	02.00	T TH	LAWSON	151	
	01.00-02.50	W	ALLYN	102	
14	02.00	T TH	LAWSON	151	
	11.00-12.50	TH	ALLYN	102	
15	02.00	T TH	LAWSON	151	
	08.00-09.50	F	ALLYN	102	
16	02.00	T TH	LAWSON	151	
	11.00-12.50	W	ALLYN	102	
17	02.00	T TH	LAWSON	151	
	10.00-11.50	S	ALLYN	106	
18	02.00	T TH	LAWSON	151	
	10.00-11.50	S	ALLYN	102	
19	03.00-04.50	T	ALLYN	102	
	07.35-08.25 PM	TH	ALLYN	102	
	ONE ADDITIONAL HR	TBA			
20	03.00-04.50	TH	ALLYN	102	
	11.00	S	UNIT 1	101	
	ONE ADDITIONAL HR	TBA			
21	03.00-04.50	F	ALLYN	102	
	09.00	T	0871	101	
	ONE ADDITIONAL HR	TBA			
22	05.00-06.50	T	ALLYN	102	
	03.00	W	ALLYN	102	
	ONE ADDITIONAL HR	TBA			
23	05.00-06.50	M	ALLYN	102	
	12.00	T	ALLYN	102	
	ONE ADDITIONAL HR	TBA			
24	05.00-06.50	TH	ALLYN	102	
	08.00	TH	ALLYN	102	
	ONE ADDITIONAL HR	TBA			
25	05.00-06.50	T	ALLYN	106	
	11.00	W	UNIT 2	101	
	ONE ADDITIONAL HR	TBA			

26	05.00-06.50	TH	ALLYN	106	
	07.35-08.25 PM	M	ALLYN	102	
	ONE ADDITIONAL HR TEA				
27	05.00-06.50	W	ALLYN	106	
	07.35-08.25 PM	T	UNIT 1	101	
	ONE ADDITIONAL HR TEA				
28	05.00-06.50	M	ALLYN	106	
	02.00	TH	UNIT12	101	
	ONE ADDITIONAL HR TEA				
29	07.35-09.15 PM	TH	ALLYN	106	
	02.00	T	0871	101	
	ONE ADDITIONAL HR TEA				
30	07.35-09.15 PM	T	ALLYN	106	
	02.00	M	UNIT12	101	
	ONE ADDITIONAL HR TEA				
102	PROB-MORAL DEC-PHIL		03.00 CR		
1	10.00	T TH	LAWSON	151	MOORE
	11.00	TH	AG	224	
2	10.00	T TH	LAWSON	151	MCORE
	12.00	TH	H C	202	
3	10.00	T TH	LAWSON	161	MOORE
	01.00	TH	H C	202	
4	10.00	T TH	LAWSON	151	MCORE
	02.00	TH	H EC	206	
5	10.00	T TH	LAWSON	161	MOORE
	03.00	TH	H EC	120	
6	10.00	T TH	LAWSON	151	MCORE
	08.00	F	H C	202	
7	10.00	T TH	LAWSON	161	MOORE
	09.00	F	WHAM	206	
8	10.00	T TH	LAWSON	151	MCORE
	10.00	F	H EC	208	
9	10.00	T TH	LAWSON	161	MOORE
	11.00	F	H C	202	
10	10.00	T TH	LAWSON	151	MCORE
	01.00	F	H C	202	
11	10.00	T TH	LAWSON	161	MOORE
	09.00	T	COMM	1021	
12	10.00	T TH	LAWSON	151	MCORE
	10.00	S	H EC	208	
13	11.00	M W	LAWSON	151	SCHILPP
	01.00	W	H C	202	
14	11.00	M W	LAWSON	151	SCHILPP
	02.00	W	H C	202	
15	11.00	M W	LAWSON	151	SCHILPP
	03.00	W	0862	101	
16	11.00	M W	LAWSON	151	SCHILPP
	08.00	TH	H EC	208	
17	11.00	M W	LAWSON	151	SCHILPP
	09.00	TH	PULL	38	
18	11.00	M W	LAWSON	151	SCHILPP
	10.00	TH	H C	202	
19	11.00	M W	LAWSON	151	SCHILPP
	11.00	TH	H EC	120	
20	11.00	M W	LAWSON	151	SCHILPP
	12.00	TH	H EC	208	
21	11.00	M W	LAWSON	151	SCHILPP
	01.00	TH	H EC	208	
22	11.00	M W	LAWSON	151	SCHILPP
	02.00	TH	H EC	208	
23	11.00	M W	LAWSON	151	SCHILPP
	03.00	TH	H C	202	
24	11.00	M W	LAWSON	151	SCHILPP
	08.00	F	WHAM	205	
25	11.00	T TH	LAWSON	151	
	01.00	TH	H EC	104	
26	11.00	T TH	LAWSON	151	
	02.00	TH	H C	202	
27	11.00	T TH	LAWSON	151	
	03.00	TH	H EC	208	
28	11.00	T TH	LAWSON	151	
	08.00	F	H EC	122	

29	11.00	T TH	LAWSON	151	
	09.00	F	ARENA	123	
30	11.00	T TH	LAWSON	151	
	10.00	F	H C	202	
31	11.00	T TH	LAWSON	151	
	11.00	F	H EC	208	
32	11.00	T TH	LAWSON	151	
	12.00	F	H C	202	
33	11.00	T TH	LAWSON	151	
	01.00	F	0871	101	
34	11.00	T TH	LAWSON	151	
	02.00	F	H C	202	
35	11.00	T TH	LAWSON	151	
	03.00	F	H EC	102	
36	11.00	T TH	LAWSON	151	
	09.00	T	H EC	201	
37	01.00	T TH	LAWSON	141	HOWIE
	08.00	M	UNIT 13	101	
38	01.00	T TH	LAWSON	141	FCWIE
	09.00	M	UNIT 8	101	
39	01.00	T TH	LAWSON	141	HOWIE
	08.00	F	H EC	106	
40	01.00	T TH	LAWSON	141	FCWIE
	11.00	M	WHLR	107	
41	01.00	T TH	LAWSON	141	HOWIE
	12.00	M	H C	202	
42	01.00	T TH	LAWSON	141	FCWIE
	01.00	M	H C	202	
43	01.00	T TH	LAWSON	141	HOWIE
	08.00	T	H EC	208	
44	01.00	T TH	LAWSON	141	FCWIE
	09.00	T	H EC	208	
45	01.00	T TH	LAWSON	141	HOWIE
	10.00	T	H C	202	
46	01.00	T TH	LAWSON	141	HOWIE
	11.00	T	H C	202	
47	01.00	T TH	LAWSON	141	HOWIE
	10.00	T	H EC	118	
48	01.00	T TH	LAWSON	141	FCWIE
	11.00	T	H EC	120	
49	03.00	T TH	LAWSON	141	KELLY
	08.00	M	H EC	120	
50	03.00	T TH	LAWSON	141	KELLY
	09.00	M	H EC	120	
51	03.00	T TH	LAWSON	141	KELLY
	12.00	M	H EC	201	
52	03.00	T TH	LAWSON	141	KELLY
	02.00	M	H C	202	
53	03.00	T TH	LAWSON	141	KELLY
	08.00	T	H EC	203	
54	03.00	T TH	LAWSON	141	KELLY
	12.00	T	H EC	208	
55	03.00	T TH	LAWSON	141	KELLY
	01.00	T	H EC	208	
56	03.00	T TH	LAWSON	141	KELLY
	02.00	T	H EC	208	
57	03.00	T TH	LAWSON	141	KELLY
	09.00	T	WHLR	212	
58	03.00	T TH	LAWSON	141	KELLY
	10.00	F	PIERCE	130	
59	03.00	T TH	LAWSON	141	KELLY
	11.00	F	WHAM	102	
60	03.00	T TH	LAWSON	141	KELLY
	01.00	F	H EC	102	
61	07.35-08.25 PM	T TH	LAWSON	141	
	09.00	F	ABBOTT	129	
62	07.35-08.25 PM	T TH	LAWSON	141	
	10.00	F	WHAM	203	
63	07.35-08.25 PM	T TH	LAWSON	141	
	11.00	F	BAILEY	130	
64	07.35-08.25 PM	T TH	LAWSON	141	
	12.00	F	H EC	120	

65	07.35-08.25 PM	T TH	LAWSON	141
	12.00	M	COMM	1021
66	07.35-08.25 PM	T TH	LAWSON	141
	08.00	T	H EC	102
67	07.35-08.25 PM	T TH	LAWSON	141
	02.00	M	BAILEY	130
68	07.35-08.25 PM	T TH	LAWSON	141
	03.00	M	H EC	120
69	07.35-08.25 PM	T TH	LAWSON	141
	10.00	T	H EC	102
70	07.35-08.25 PM	T TH	LAWSON	141
	11.00	T	H EC	104
71	07.35-08.25 PM	T TH	LAWSON	141
	12.00	T	H EC	104
72	07.35-08.25 PM	T TH	LAWSON	141
	01.00	T	WHAM	305
103	WORLD LIT FOR COMP 03.0 CR			
	PREREQ GSD 102 OR THE APPROPRIATE ACT			
	SCORE			
1	08.00	M W F	WHAM	303
2	08.00	M W F	WARREN	129
3	08.00	T THF	H EC	120
4	08.00	M W F	0862	102
5	08.00	T TH	0862	102
	08.00	F	0875	101
6	08.00	M W F	UNIT10	101
7	09.00	M W F	FELTS	130
8	09.00	T TH	UNIT10	101
	09.00	F	UNIT 8	101
9	09.00	M W F	WARREN	129
10	09.00	T TH	WARREN	129
	09.00	F	WHAM	203
11	09.00	M W F	0862	102
12	09.00	T TH	UNIT 9	101
	09.00	F	MAIN	301
13	10.00	M W F	FELTS	130
14	10.00	M W F	WARREN	129
15	10.00	T TH	WARREN	129
	10.00	F	WHAM	202
16	10.00	M W F	0862	102
17	10.00	T TH	0862	102
	10.00	F	WHAM	112
18	10.00	M	UNIT 9	101
	10.00	W F	0861	102
19	11.00	M W F	FELTS	130
20	11.00	T TH	FELTS	130
	11.00	F	WHAM	303
21	11.00	M W F	WARREN	129
22	11.00	M W F	0862	102
23	11.00	T F	LS I	323
	11.00	TH	AG	116
24	11.00	T TH	AG	154
	11.00	F	LS I	205
25	12.00	M W F	FELTS	130
26	12.00	T TH	FELTS	130
	12.00	F	WARREN	129
27	12.00	MT TH	WARREN	129
28	12.00	MT TH	GYM	203
29	12.00	T F	0871	101
	12.00	W	H EC	122
30	12.00	M W F	0862	102
31	12.00	T THF	0875	101
32	12.00	MT TH	PIERCE	130
33	01.00	M W F	FELTS	130
34	01.00	T TH	FELTS	130
	01.00	F	WARREN	129
35	01.00	MT TH	AG	220
36	01.00	M WTH	WARREN	129
	FOREIGN STUDENTS ONLY			
37	01.00	T	H C	202
	01.00	W	H EC	122
	01.00	F	GYM	203

38	01.00	T F	UNIT 1	101	
	01.00	TH	0861	102	
39	01.00	T	GYM	204	
	01.00	W F	MAIN	305A	
40	02.00	M W F	FELTS	130	
41	02.00	T TH	FELTS	130	
	02.00	F	WARREN	129	
42	02.00	MT TH	WARREN	129	
43	02.00	M WTH	0871	101	
44	02.00	T THF	UNIT 1	101	
45	02.00	T TH	ABBOTT	129	
	02.00	F	BAILEY	130	
46	02.00	M	H EC	206	
	02.00	W F	GYM	204	
47	03.00	M W F	FELTS	130	
48	03.00	T TH	FELTS	130	
	03.00	F	WARREN	129	
49	03.00	MT TH	WARREN	129	
50	03.00	M WTH	GYM	203	
51	03.00	T F	GYM	203	
	03.00	W	H EC	122	
52	03.00	T THF	UNIT11	101	
53	03.00	M W F	H C	202	
54	04.00	M W F	FELTS	130	
55	04.00	T THF	WHAM	307	
56	04.00	MT TH	WARREN	129	
57	04.00	T F	GYM	203	
	04.00	W	H EC	203	
58	04.00	M W F	UNIT 7	101	
59	06.00-07.15 PM	M W	0862	102	
60	06.00-07.15 PM	T TH	0862	102	
61	06.00-07.15 PM	M W	UNIT13	101	
62	06.00-07.15 PM	T TH	UNIT13	101	
63	06.00-07.15 PM	M W	0871	101	
64	06.00-07.15 PM	T TH	H EC	102	
65	07.35-08.50 PM	M W	0862	102	
66	07.35-08.50 PM	T TH	0862	102	
67	07.35-08.50 PM	M W	UNIT13	101	
68	07.35-08.50 PM	T TH	UNIT13	101	
69	07.35-08.50 PM	M W	0871	101	
70	07.35-08.50 PM	T TH	H EC	102	
110B	WESTERN HUMANITIES		03.0 CR		
1	10.00	M W F	LAWSON	161	PLOCHMANN
200	ORAL INTERP OF LIT		04.0 CR		
1	08.00	MTWTH	COMM	1020	
2	11.00-12.50	T TH	COMM	1020	
3	12.00	MTW F	COMM	1018	
4	12.00	MTWTH	COMM	1017	
5	01.00	MTWTH	COMM	1020	
6	03.00-04.50	T TH	AG	222	
7	04.00	TWTHF	COMM	1020	
8	04.00	MTWTH	COMM	1018	
9	07.35-09.15 PM	M W	COMM	1017	
10	07.35-09.15 PM	T TH	COMM	1021	
11	07.35-09.15 PM	T TH	COMM	1018	
12	07.35-09.15 PM	M W	COMM	1013	
201	INTRO TO DRAMA		03.0 CR		
1	08.00	M W F	FELTS	130	
2	09.00	T TH	WHAM	303	
	09.00	W	GYM	203	
3	10.00	M W F	PULL	38	
4	11.00	T TH	WHAM	303	
	11.00	F	WHAM	308	
5	12.00	M W F	WHAM	303	
6	01.00	M W F	WHAM	303	
7	02.00	M W F	UNIT 7	101	
8	03.00	M W F	WHAM	303	
9	04.00	M W F	WHAM	303	
10	06.00-07.15 PM	M W	UNIT 7	101	
11	06.00-07.25 PM	M W	UNIT14	101	
12	07.35-08.50 PM	M W	H EC	104	
13	07.35-08.50 PM	M W	UNIT14	101	

202	INTRO TO POETRY		03.0 CR	
1	08.00	T TH	WHAM 303	
	08.00	F	WHAM 308	
2	08.00	M W F	UNIT 8 101	
3	09.00	T TH	UNIT 7 101	
	09.00	F	PHY SC 118	
4	10.00	T TH	WHAM 303	
	10.00	W	WHAM 312	
5	11.00	M W	PULL 39	
	11.00	F	GYM 204	
6	12.00	M	WHAM 307	
	12.00	T TH	WHAM 303	
7	01.00	M	WHAM 307	
	01.00	T TH	WHAM 303	
8	02.00	M	WHAM 307	
	02.00	T TH	0875 102	
9	03.00	MT TH	ARENA 119	
10	04.00	MT TH	UNIT 3 101	
11	06.00-07.15 PM	T TH	WHAM 303	
12	07.35-08.50 PM	T TH	H EC 104	
203	DRAMA-ARTS OF THEA		03.0 CR	
1	11.00	T TH	COMM 1037	GRAY WINSTON G
	03.00	TH	COMM 1017	
2	11.00	T TH	COMM 1037	GRAY WINSTON G
	04.00	TH	COMM 1017	
3	11.00	T TH	COMM 1037	GRAY WINSTON G
	03.00	F	COMM 1017	
4	11.00	T TH	COMM 1037	GRAY WINSTON G
	04.00	F	COMM 1017	
5	11.00	T TH	COMM 1037	GRAY WINSTON G
	01.00	TH	COMM 1017	
6	11.00	T TH	COMM 1037	GRAY WINSTON G
	01.00	F	COMM 1008	
7	11.00	T TH	COMM 1037	GRAY WINSTON G
	12.00	F	COMM 1017	
8	11.00	T TH	COMM 1037	GRAY WINSTON G
	02.00	TH	COMM 1022	
9	11.00	T TH	COMM 1037	GRAY WINSTON G
	02.00	F	COMM 1017	
10	11.00	T TH	COMM 1037	GRAY WINSTON G
	02.00	W	COMM 1006	
11	11.00	T TH	COMM 1037	GRAY WINSTON G
	03.00	W	COMM 1006	
12	11.00	T TH	COMM 1037	GRAY WINSTON G
	04.00	W	COMM 1021	
204	MEANING IN VIS ARTS		04.0 CR	
	PREREQ GSC 101 CR CONSENT			
1	01.00	MTWTH	LAWSON 161	
205	MANS CONTEMP ENVIR		04.0 CR	
1	11.00-12.50	T	LAWSON 161	
	11.00	THF	LAWSON 161	
2	12.00-01.50	W	LAWSON 121	
	01.00	THF	LAWSON 121	
3	04.00-05.50	T	LAWSON 161	
	04.00	THF	LAWSON 161	
206	FOUNDATIONS OF MUS		04.0 CR	
1	08.00	TWTHF	ALTG 116	
2	12.00	TWTHF	ALTG 116	FLOYD
3	01.00	TWTHF	ALTG 116	INTRAVAIA LAWRENCE J
207	PHIL OF BEAUTIFUL		03.0 CR	
1	10.00	T TH	LAWSON 171	MCCLURE GEORGE T
	11.00	TH	H C 202	
2	10.00	T TH	LAWSON 171	MCCLURE GEORGE T
	01.00	TH	H EC 102	
3	10.00	T TH	LAWSON 171	MCCLURE GEORGE T
	09.00	F	H EC 201	
4	10.00	T TH	LAWSON 171	MCCLURE GEORGE T
	10.00	F	H EC 118	
5	10.00	T TH	LAWSON 171	MCCLURE GEORGE T
	01.00	F	COMM 1021	
6	10.00	T TH	LAWSON 171	MCCLURE GEORGE T
	02.00	F	COMM 1020	

C

7	10.00	T TH	LAWSON	171	MCCLURE GEORGE T
	08.00	M	COMM	1017	
8	10.00	T TH	LAWSON	171	MCCLURE GEORGE T
	12.00	TH	H EC	104	
9	10.00	T TH	LAWSON	171	MCCLURE GEORGE T
	10.00	M	PARK	308	
10	10.00	T TH	LAWSON	171	MCCLURE GEORGE T
	12.00	M	WHAM	305	
11	10.00	T TH	LAWSON	171	MCCLURE GEORGE T
	02.00	TH	COMM	1021	
12	10.00	T TH	LAWSON	171	MCCLURE GEORGE T
	03.00	TH	COMM	1021	
208	LOGIC AND MEANING		04.0	CR	
1	09.00	M W F	LAWSON	141	EAMES S MORRIS
	02.00		AG	154	
2	09.00	M W F	LAWSON	141	EAMES S MORRIS
	03.00		AG	116	
3	09.00	M W F	LAWSON	141	EAMES S MORRIS
	10.00	S	AG	224	
4	09.00	M W F	LAWSON	141	EAMES S MORRIS
	08.00	M	H EC	201	
5	09.00	M W F	LAWSON	141	EAMES S MORRIS
	01.00		H EC	120	
6	09.00	M W F	LAWSON	141	EAMES S MORRIS
	10.00		WHAM	321	
7	09.00	M W F	LAWSON	141	EAMES S MORRIS
	11.00		H EC	102	
8	09.00	M W F	LAWSON	141	EAMES S MORRIS
	12.00		H EC	106	
9	09.00	M W F	LAWSON	141	EAMES S MORRIS
	04.00		H C	202	
10	09.00	M W F	LAWSON	141	EAMES S MORRIS
	10.00		H EC	102	
11	09.00	M W F	LAWSON	141	EAMES S MORRIS
	11.00		H EC	206	
12	09.00	M W F	LAWSON	141	EAMES S MORRIS
	09.00	S	H EC	208	
13	01.00	M W F	LAWSON	141	EAMES ELIZABETH R
	02.00		WHAM	112	
14	01.00	M W F	LAWSON	141	EAMES ELIZABETH R
	03.00		H EC	206	
15	01.00	M W F	LAWSON	141	EAMES ELIZABETH R
	09.00	S	UNIT 3	101	
16	01.00	M W F	LAWSON	141	EAMES ELIZABETH R
	10.00	S	UNIT 3	101	
17	01.00	M W F	LAWSON	141	EAMES ELIZABETH R
	08.00	M	PULL	41	
18	01.00	M W F	LAWSON	141	EAMES ELIZABETH R
	09.00	M	PULL	43	
19	01.00	M W F	LAWSON	141	EAMES ELIZABETH R
	10.00	M	0861	102	
20	01.00	M W F	LAWSON	141	EAMES ELIZABETH R
	11.00	M	ABBOTT	129	
21	01.00	M W F	LAWSON	141	EAMES ELIZABETH R
	12.00	M	WHAM	208	
22	01.00	M W F	LAWSON	141	EAMES ELIZABETH R
	04.00		H EC	120	
23	01.00	M W F	LAWSON	141	EAMES ELIZABETH R
	10.00	M	H EC	118	
24	01.00	M W F	LAWSON	141	EAMES ELIZABETH R
	11.00	M	H EC	106	
209	MOD LIT FORM IDEA		04.0	CR	
1	08.00	MT THF	WHAM	307	
2	09.00	MT THF	WHAM	307	
3	10.00	MT THF	WHAM	307	
4	10.00	T TH	WHAM	317	
	10.00	W F	UNIT 6	101	
5	11.00	MT THF	WHAM	307	
6	12.00	TWTHF	WHAM	307	
7	12.00	MT THF	ABBOTT	129	
8	01.00	TWTHF	WHAM	307	
9	01.00	MT THF	WHAM	319	

10	02.00	TWTHF	WHAM	307	
11	02.00	MT THF	WHAM	319	
12	03.00	TWTHF	WHAM	307	
13	03.00	MT THF	WHAM	319	
14	04.00	MT THF	WHAM	319	
15	04.00	MT THF	AG	220	
16	05.45-07.25	T TH	WHAM	307	
17	05.45-07.25	T TH	WHAM	317	
18	07.35-09.15 PM	M W	WHAM	307	
19	07.35-09.15 PM	T TH	WHAM	307	
210	INTRO TO FICTION		03.0 CR		
1	08.00	M W F	PULL	43	
2	09.00	M W F	WHAM	317	
3	10.00	M W F	WHAM	317	
4	11.00	M W F	WHAM	317	
5	12.00	M WTH	WHAM	317	
6	01.00	T	UNIT 12	101	
	01.00	W	MAIN	304 A	
	01.00	F	UNIT 6	101	
7	01.00	T F	H EC	206	
	01.00	TH	H EC	106	
8	02.00	M WTH	UNIT 8	101	
9	02.00	T TH	0871	102	
	02.00	F	0871	101	
10	03.00	M WTH	WHAM	329	
11	03.00	MT TH	H EC	201	
12	04.00	M WTH	H EC	201	
13	04.00	M WTH	MAIN	209	
14	06.00-07.15 PM	M W	H EC	122	
15	06.00-07.25 PM	T TH	H EC	203	
16	07.35-09.00 PM	T TH	H EC	203	
17	07.35-08.20 PM	M W	MAIN	102	
211B	ORIENTAL HUMANITIES		03.0 CR		
1	09.00	M W F	LAWSON	101	LIU SHU-HSIEN
215	TYPES OF RELIGION		04.0 CR		
1	01.00	M W F	WHAM	308	FAYWARD
	09.00	T	H EC	120	
2	01.00	M W F	WHAM	308	FAYWARD
	12.00	T	H EC	120	
3	01.00	M W F	WHAM	308	FAYWARD
	02.00	T	CL	326	
4	01.00	M W F	WHAM	308	FAYWARD
	04.00	T	WHAM	228	
310	REL FOUN-WEST CIVIL		03.0 CR		
1	09.00	T	WHAM	328	MCLEAN
	09.00	T	WHAM	328	
2	10.00	T TH	LAWSON	141	MCLEAN
	11.00	TH	WHAM	319	WELTON DONN C
3	10.00	T TH	LAWSON	141	MCLEAN MILTON D
	01.00	TH	WHAM	305	WELTON DONN C
4	10.00	T TH	LAWSON	141	MCLEAN MILTON D
	10.00	F	PULL	41	WELTON DONN C
5	10.00	T TH	CL	25	MCLEAN MILTON D
	11.00	F	PULL	41	WELTON DONN C
6	10.00	T TH	LAWSON	141	MCLEAN
	08.00	F	WHAM	201	
7	10.00	T TH	LAWSON	141	MCLEAN
	09.00	F	WHAM	326	
8	10.00	T TH	LAWSON	141	MCLEAN
	01.00	F	WHAM	203	
9	10.00	T TH	LAWSON	141	MCLEAN
	11.00	M	WHAM	137	
10	10.00	T TH	LAWSON	141	MCLEAN
	12.00	M	WHAM	201	
11	10.00	T TH	LAWSON	141	MCLEAN
	08.00	T	PULL	43	
12	10.00	T TH	LAWSON	141	MCLEAN
	02.00	M	AG	220	
311	PHIL-REL OF INDIA		03.0 CR		
1	02.00	T THF	H EC	140B	ALLEN DOUGLAS M
317	RECENT AMER LIT		03.0 CR		
1	08.00	M W F	WHAM	319	

2	09.00	M W F	TECH A	122
3	09.00	T	H EC	118
	09.00	W	H EC	120
	09.00	F	WHAM	228
4	10.00	MT TH S	PARK	204
5	11.00	T TH	0871	102
	11.00	F	AG	216
6	12.00	M WTH	H EC	120
7	12.00	M WTH	0871	101
8	01.00	M WTH	WHAM	329
9	02.00	M WTH	GYM	203
10	03.00	WTH	H EC	102
11	04.00	M WTH	H EC	118
12	07.35-08.50 PM	M W	H EC	102
325	BLACK AMER WRITERS			03.0 CR
	PREREQ GSC 103 OR EQUIVALENT			
1	12.00	M W F	COMM	1006
2	01.00	M	WHAM	212
	01.00	W F	PULL	41
330	CLASSICAL MYTHOLOGY			03.0 CR
1	02.00	M WTH	PULL	38
331	LATIN LIT IN TRANSL			03.0 CR
1	01.00	M W	LAWSON	101
	01.00	TH	PARK	111
341	MODERN ART 8-20 CEN			03.0 CR
1	08.00	M W F	LAWSON	141
345A	WORLD LITERATURE			03.0 CR
1	09.00	T TH	WHAM	205
	09.00	F	WHAM	210
2	10.00	M W F	WHAM	319
3	11.00	M W F	PULL	41
	11.00	F	WHAM	202
4	12.00	TW F	H EC	201
345B	WORLD LITERATURE			03.0 CR
1	12.00	T F	WHAM	317
	12.00	W	WHAM	319
2	01.00	T F	WHAM	317
	01.00	W	WHAM	202
345C	WORLD LITERATURE			03.0 CR
1	08.00	MT TH	UNIT 4	101
2	09.00	T F	PARK	204
	09.00	W	UNIT 6	101
3	10.00	M W F	GYM	203
4	11.00	M	PHY SC	118
	11.00	W	UNIT10	101
	11.00	F	WHAM	328
5	12.00	M W F	UNIT 3	101
6	01.00	T F	WHAM	329
	01.00	W	H EC	120
7	02.00	M WTH	WHAM	328
8	03.00	M WTH	UNIT 8	101
9	04.00	MT TH	COMM	1022
10	06.00-07.15 PM	M W	H EC	102
11	07.35-08.50 PM	M W	H EC	201
351A	MASTERPIECES NOVEL			03.0 CR
1	03.00	T THF	0871	102
2	04.00	T THF	GYM	204
351B	MASTERPIECES NOVEL			03.0 CR
1	09.00	T TH	CL	109
	09.00	F	WHAM	319
2	12.00	M W F	WHAM	312
3	02.00	M W F	UNIT10	101
4	06.00-07.15 PM	T TH	UNIT 3	101
354A	HISTORY OF THEATRE			03.0 CR
1	12.00	T THF	TECH A	111
365	SHAKESPEARE			03.0 CR
1	08.00	TW F	UNIT 7	101
2	09.00	T	0862	102
	09.00	W	WHAM	329
	09.00	F	0875	101
3	10.00	M W	0875	101
	10.00	F	UNIT 5	101

KOZLENKO W

GSD

4	11.00	T TH	H EC	203	
	11.00		F H EC	120	
5	12.00	TW F	WHAM	305	
6	02.00	TW F	H EC	206	
7	03.00	T	H EC	102	
	03.00	W F	H EC	119	
8	06.00-07.15 PM	M W	H EC	122	
370A	AMER MUS FOLK+JAZZ			03.0 CR	
	PREREQ GSC 100 OR EQUIVALENT				
1	01.00	M W F	ALTG	116	
382	GRAECO-ROM MED PHIL			03.0 CR	
1	08.00	M W F	H EC	208	HOWIE JOHN
2	12.00	M W F	H EC	208	CLARKE DAVID S
3	01.00	M W F	H EC	208	DIEFENBECK JAMES A
4	02.00	M W F	H EC	208	
5	03.00	M W F	H EC	208	KELLY MATTHEW
386	EARLY AMER PHIL			03.0 CR	
1	02.00	M W F	LAWSON	151	FAHN

General Studies Area D—Organization and Communication of Ideas (GSD)

101	ENGLISH COMPOSITION			03.0 CR	
1	08.00	M W F	UNIT 6	101	MILES KATHLEEN M
2	08.00	MT TH	UNIT11	101	
3	08.00	M	UNIT 9	101	
	08.00	T TH	UNIT 2	101	
4	08.00	M W F	ABBOTT	129	
5	09.00	M W F	AG	150	
6	09.00	M	PARK	309	
	09.00	T TH	PARK	301	
7	09.00	T TH	PARK	308	
	09.00		F WHAM	303	
8	10.00	M W F	H EC	122	
9	10.00	M W F	AG	150	
10	11.00	M W F	GYM	203	
11	11.00	T TH	GYM	203	
	11.00		F H EC	104	
12	11.00	M W F	AG	224	
13	12.00	T TH	0862	102	
	12.00		F UNIT12	101	
14	12.00	MT TH	UNIT10	101	
15	12.00	M W F	0861	101	
16	01.00	MT TH	0862	102	
17	01.00	MT TH	UNIT 2	101	
18	01.00	MT TH	GYM	203	
19	01.00	MT TH	PIERCE	130	
20	01.00	M W F	UNIT11	101	
21	02.00	MT TH	0862	102	
22	02.00	T	AG	150	
	02.00	W F	0862	102	
23	02.00	M TH	PARK	301	
	02.00	T	WHLR	212	
24	02.00	T F	WHAM	308	
	02.00	W	WHAM	312	
25	03.00	W F	WHAM	305	
	03.00	TH	WHAM	321	
26	03.00	M	H EC	104	
	03.00	T TH	UNIT12	101	
27	03.00	M	0871	102	
	03.00	T TH	WHLR	212	
28	03.00	T THF	WHAM	308	
29	04.00	MT TH	UNIT 2	101	
30	04.00	MT TH	UNIT 1	101	
31	06.00-07.15 PM	M W	0875	102	
32	06.00-07.25 PM	T TH	0871	101	
33	06.00-07.25 PM	M W	UNIT 9	101	
34	06.00-07.25 PM	M W	UNIT 5	101	
35	06.00-07.25 PM	T TH	AG	224	
36	07.35-08.50 PM	M W	0875	102	
37	07.35-09.00 PM	T TH	UNIT 2	101	
38	07.35-09.00 PM	M W	UNIT 9	101	
39	07.35-09.00 PM	M W	UNIT 5	101	
40	07.35-09.00 PM	T TH	AG	224	

1	08.00	M W F	COMM	1021
2	08.00	MT TH	H EC	118
3	08.00	M W F	0871	102
4	08.00	T TH	WHAM	319
	08.00	F	H EC	118
5	08.00	M W F	UNIT12	101
6	08.00	F	UNIT 4	101
	08.00	T TH	UNIT12	101
7	08.00	M W F	0871	101
8	08.00	T TH	0871	101
	08.00	M	UNIT 2	101
9	08.00	T THF	UNIT14	101
10	08.00	MT TH	WHAM	321
11	09.00	T	MAIN	302
	09.00	W F	PARK	309
12	09.00	T	UNIT 8	101
	09.00	TH	0871	101
	09.00	M	WHLR	207
13	09.00	M W F	0875	102
14	09.00	M W F	UNIT10	101
15	09.00	T THF	0861	101
	09.00	F	WHLR	113
16	09.00	M W F	0871	101
17	09.00	T	0862	101
	09.00	F	BAILEY	130
	09.00	TH	AG	170
18	09.00	T THF	LS I	205
19	10.00	T TH	0871	102
	10.00	F	UNIT 4	101
20	10.00	T TH	UNIT 2	101
	10.00	M	LAWSON	221
21	10.00	M W F	0875	102
22	10.00	T TH	0875	102
	10.00	F	UNIT 1	101
23	10.00	M W F	UNIT12	101
24	10.00	T TH	UNIT12	101
	10.00	M	COMM	1022
25	10.00	M W F	0871	101
26	10.00	T TH	0871	101
	10.00	M	PARK	111
27	10.00	F	WHAM	228
	10.00	W	UNIT11	101
	10.00	T	UNIT 3	101
28	11.00	M W	UNIT 8	101
	11.00	F	UNIT 1	101
29	11.00	T TH	UNIT 5	101
	11.00	F	WHAM	210
30	11.00	M W F	0875	102
31	11.00	T TH	0875	102
	11.00	F	0862	101
32	11.00	M W F	UNIT12	101
33	11.00	MT TH	UNIT 2	101
34	11.00	M W F	0871	101
35	11.00	TW F	AG	170
36	12.00	M W F	UNIT 5	101
37	12.00	T TH	UNIT 5	101
	12.00	F	UNIT 8	101
38	12.00	M WTH	H EC	106
39	12.00	MT TH	UNIT11	101
40	12.00	MT TH	H EC	102
41	12.00	T TH	0862	101
	12.00	M	UNIT 6	101
42	12.00	M WTH	0875	102
43	12.00	M WTH	UNIT12	101
44	01.00	T TH	UNIT 5	101
	01.00	F	WHAM	112
45	01.00	T	H EC	102
	01.00	M TH	0862	101
46	01.00	TW F	0862	101

47	01.00	M W	UNIT 9	101
	01.00	TH	WHAM	317
48	01.00	MT TH	0875	102
49	01.00	T	COMM	1018
	01.00	W F	0875	102
50	01.00	M W F	UNIT 7	101
51	01.00	MT TH	0871	101
52	02.00	T	UNIT 6	101
	02.00	W F	UNIT 5	101
53	02.00	M WTH	0862	101
54	02.00	M	WHAM	326
	02.00	T TH	H EC	120
55	02.00	M WTH	0861	102
56	02.00	M W F	0875	102
57	02.00	W	0861	101
	02.00	T F	0861	102
58	03.00	M W F	UNIT 5	101
59	03.00	MT TH	0862	101
60	03.00	M W F	WHAM	321
61	03.00	M WTH	0875	102
62	03.00	T	0875	102
	03.00	W F	0861	102
63	03.00	MT TH	0861	102
64	03.00	M WTH	0871	101
65	03.00	T F	0871	101
	03.00	W	UNIT13	101
66	04.00	M W F	UNIT 5	101
67	04.00	MT TH	0862	101
68	04.00	M W F	COMM	1006
69	04.00	MT TH	UNIT 6	101
70	04.00	M WTH	0875	102
71	04.00	T	0875	102
	04.00	W F	UNIT 8	101
72	04.00	MT TH	COMM	1021
73	04.00	M WTH	0871	101
74	04.00	T F	0871	101
	04.00	W	UNIT12	101
75	06.00-07.15 PM	T TH	UNIT 5	101
76	06.00-07.15 PM	M W	UNIT 3	101
77	06.00-07.15 PM	T TH	UNIT12	101
78	06.00-07.15 PM	M W	UNIT 8	101
79	06.00-07.15 PM	M W	0862	101
80	06.00-07.15 PM	T TH	0862	101
81	06.00-07.15 PM	M W	H EC	118
82	06.00-07.15 PM	T TH	H EC	118
83	07.35-08.50 PM	T TH	UNIT 5	101
84	07.35-08.50 PM	M W	UNIT 8	101
85	07.35-08.50 PM	T TH	UNIT12	101
86	07.35-08.50 PM	T TH	UNIT 8	101
87	07.35-08.50 PM	M W	0862	101
88	07.35-08.50 PM	T TH	0862	101
89	07.35-08.50 PM	M W	H EC	118
90	07.35-08.50 PM	T TH	H EC	118
103	ORAL COMM OF IDEAS		03.0	CR
1	08.00	M W F	AG	222
	01.00	TH	LAWSON	231
2	08.00	M W F	PULL	43A
	01.00	TH	LAWSON	101
3	08.00	M W F	WHAM	305
	01.00	TH	COMM	1022
4	08.00	T TH S	AG	222
	12.00	TH	LAWSON	231
5	08.00	T THF	COMM	1017
	12.00	TH	LAWSON	101
6	08.00	T TH	WHAM	305
	08.00	F	COMM	1020
	12.00	TH	COMM	1022
7	09.00	M W F	AG	222
	01.00	TH	LAWSON	231
8	09.00	M W F	PULL	41
	01.00	TH	LAWSON	101
9	09.00	M W F	WHAM	305
	01.00	TH	COMM	1022

10	09.00	M W F	COMM	1021
	01.00	TH	H EC	201
11	09.00	T TH S	AG	222
	12.00	TH	LAWSON	231
12	09.00	T THF	COMM	1017
	12.00	TH	LAWSON	101
13	09.00	T TH	AG	188
	09.00	F	WHAM	321
	12.00	TH	COMM	1021
14	09.00	T TH	WHAM	305
	09.00	F	COMM	1020
	12.00	TH	COMM	1022
15	10.00	MT TH	AG	222
	08.00	TH	LAWSON	231
16	10.00	T TH S	AG	152
	08.00	TH	LAWSON	101
17	10.00	MT TH	WHAM	305
	08.00	TH	H EC	201
18	10.00	W F	AG	222
	10.00	T	COMM	1021
	09.00	TH	LAWSON	231
19	10.00	W	COMM	1020
	10.00	FS	COMM	1017
	09.00	TH	LAWSON	101
20	10.00	W FS	WHAM	305
	09.00	TH	COMM	1022
21	10.00	M W	COMM	1017
	10.00	F	COMM	1022
	09.00	TH	H EC	201
22	11.00	MT TH	AG	222
	08.00	TH	LAWSON	231
23	11.00	T TH S	AG	152
	08.00	TH	LAWSON	101
24	11.00	MT TH	WHAM	305
	08.00	TH	COMM	1022
25	11.00	MT TH	WHAM	321
	08.00	TH	H EC	201
26	11.00	W F	AG	222
	11.00	T	COMM	1021
	09.00	TH	LAWSON	231
27	11.00	W	COMM	1020
	11.00	FS	COMM	1017
	09.00	TH	LAWSON	101
28	11.00	W FS	WHAM	305
	09.00	TH	COMM	1022
29	11.00	M W	COMM	1017
	11.00	F	COMM	1022
	09.00	TH	H EC	201
30	01.00	M	H EC	203
	09.00	TH	COMM	1021
	01.00	W F	AG	148
31	01.00	TWTH	AG	222
	10.00	TH	LAWSON	231
32	01.00	M W F	COMM	1017
	10.00	TH	LAWSON	101
33	01.00	M W F	WHAM	305
	10.00	TH	COMM	1022
34	02.00	M W F	COMM	1021
	01.00	TH	COMM	1021
RESTRICTED TO PRESIDENT SCHOLARS				
35	02.00	M	H EC	120
	09.00	TH	COMM	1021
	02.00	W F	AG	148
36	02.00	TWTH	AG	222
	10.00	TH	LAWSON	231
37	02.00	M W	AG	116
	02.00	F	H EC	156
	10.00	TH	H EC	118
38	02.00	M W F	WHAM	305
	10.00	TH	COMM	1022
39	03.00	M	COMM	1017
	03.00	W F	COMM	1018
	01.00	TH	COMM	1021

40	03.00	M W F	AG	150
	11.00	TH	LAWSON	231
41	03.00	T THF	AG	188
	11.00	TH	LAWSON	101
42	03.00	M W F	PULL	43A
	11.00	TH	COMM	1021
43	03.00	MT TH	WHAM	305
	11.00	TH	COMM	1022
44	04.00	M W F	AG	150
	11.00	TH	LAWSON	231
45	04.00	T THF	AG	188
	11.00	TH	LAWSON	101
46	04.00	M W F	PULL	43A
	11.00	TH	COMM	1021
47	04.00	MT TH	WHAM	305
	11.00	TH	COMM	1022
48	06.00-07.25 PM	M W	COMM	1020
	08.00	TH	COMM	1021
49	06.00-07.25 PM	T TH	COMM	1020
	10.00	TH	COMM	1021
50	06.00-07.25 PM	M W	COMM	1022
	09.00	TH	H EC	118
51	06.00-07.25 PM	M W	COMM	1006
	10.00	TH	H EC	201
52	06.00-07.25 PM	M W	COMM	1018
	11.00	TH	H EC	201
53	06.00-07.25 PM	T TH	COMM	1006
	12.00	TH	H EC	201
54	06.00-07.25 PM	T TH	COMM	1022
	01.00	TH	H EC	118
55	07.35-09.00 PM	M W	COMM	1020
	08.00	TH	COMM	1021
56	07.35-09.00 PM	T TH	COMM	1020
	10.00	TH	COMM	1021
57	07.35-09.00 PM	M W	COMM	1022
	09.00	TH	H EC	118
58	07.35-09.00 PM	M W	COMM	1016
	10.00	TH	H EC	201
59	07.35-09.00 PM	T TH	COMM	1006
	12.00	TH	H EC	201
60	07.35-09.00 PM	T TH	COMM	1022
	01.00	TH	H EC	118
106	INTERMED ALGEBRA			00.0 CR
1	08.00	TWTHF	UNIT13	101
2	10.00	M W FS	UNIT 2	101
3	12.00	T TH	TECH A	210
	12.00	W F	TECH A	320
4	04.00	MTWTH	TECH A	208
5	05.45-07.25	T TH	AG	116
107A	BASIC COLLEGE MATH			05.0 CR
	PREREQ H.S. OR GSC 106			
1	08.00	MTWTHF	TECH A	310
2	08.00	MT THFS	H EC	206
3	09.00	M WTHFS	UNIT13	101
4	09.00	MTWTHF	UNIT14	101
5	10.00	MTWTHF	BROWN	130
6	11.00	T TH S	TECH A	310
	11.00	W	H EC	201
	11.00	F	WHAM	206
7	12.00	MTWTHF	UNIT 4	101
8	12.00	MTWTHF	LS I	16
9	01.00	MTWTHF	UNIT14	101
10	02.00	MTWTHF	AG	216
11	02.00	MTWTHF	UNIT 2	101
12	03.00	MTWTHF	0875	101
13	03.00	MTWTHF	LS I	16
14	06.00-07.15 PM	M WTH	PHY SC	118
15	07.35-08.50 PM	M WTH	PHY SC	118
107B	BASIC COLLEGE MATH			03.0 CR
	PREREQ GSD 107A			
1	08.00	M W F	TECH A	222
2	09.00	M W F	AG	216

3	10.00	MT F	UNIT 8	101	
4	11.00	M W F	COMM	1021	
5	12.00	M W F	AG	158	
6	01.00	M	TECH A	322	
	01.00	T TH	TECH A	320	
7	02.00	M W F	AG	158	
8	03.00	MT TH	AG	116	
9	04.00	M W F	AG	158	
10	06.00-07.15 PM	M W	TECH A	310	
11	07.35-08.50 PM	T TH	TECH A	222	
109	ELEMENTS OF PROBAB		03.0 CR		
	PREREQ GSD 107A CR 108B				
1	09.00	M W F	AG	116	
2	10.00	M W F	COMM	1021	
3	12.00	TW F	COMM	1021	
4	02.00	M W	TECH A	322	
	02.00	TH	TECH A	222	
5	04.00	M W F	TECH A	210	
6	07.35-08.50 PM	M W	TECH A	222	
110	ECON-BUS STATISTICS		03.0 CR		
	PREREQ GSD 108B, 114B, OR EQUIV				
1	08.00	M W F	LAWSON	151	
2	01.00	T THF	LAWSON	171	
3	06.00-07.25 PM	M W	LAWSON	161	
	SEE CHIN LISTING FOR CHINESE CONVERSATION				
120B	ELEMENTARY CHINESE		03.0 CR		
	PREREQ GSD 12CA				
2	10.00	M W F	0871	102	YANG ISABELLA
	10.00	T	MAIN	101	YANG ISABELLA
	LAB-10 00 TU				
123A	ELEMENTARY FRENCH		03.0 CR		
1	08.00	M	WHAM	208	
	08.00	T	WHLR	18	
	08.00	WTH	WHLR	207	
2	09.00	T TH	UNIT11	101	
	09.00	W	WHLR	212	
	09.00	M	WHLR	18	
3	09.00	T TH	0875	102	
	09.00	F	WHLR	107	
	09.00	M	WHLR	18	
4	11.00	F	WHAM	321	
	11.00	T TH	BAILEY	130	
	11.00	W	WHLR	18	
5	11.00	T THF	WHLR	107	
	11.00	W	WHLR	18	
6	12.00	M W F	H EC	104	
	12.00	S	WHLR	18	
7	12.00	M W F	H EC	203	
	12.00	S	WHLR	18	
8	03.00	T THF	PIERCE	130	
	03.00	M	WHLR	18	
9	06.00-07.25 PM	M W	WHLR	207	
	05.00	W	WHLR	18	
	SEE FR LISTING FOR FR CONVERSATION				
123B	ELEMENTARY FRENCH		03.0 CR		
	PREREQ GSD 123A				
1	08.00	M W F	WHLR	113	
	08.00	T	WHLR	18	
	LAB-3 00 M -SECT RESTRICTED -SEE NOTE				
	BELOW				
2	08.00	M W	COMM	1018	
	08.00	F	UNIT11	101	
	08.00	T	WHLR	18	
3	09.00	T TH S	WHLR	207	
	09.00	W	WHLR	18	
4	10.00	W F	WHLR	113	
	10.00	M	WHLR	18	
	10.00	T	WHLR	212	
5	10.00	T TH S	WHLR	113	
	10.00	M	WHLR	18	

6	11.00		F	WHAM	301B
	11.00	M		WHLR	18
	11.00		W	MAIN	101
	11.00	T		WHAM	228
RESTRICTED - SEE NOTE BELCW					
7	12.00	M	W	F	WHLR 113
	12.00	T			WHLR 18
8	01.00	M			AG 158
	01.00		F		AG 154
	01.00		W		WHLR 18
	01.00		TH		AG 116
9	01.00	MT	TH		H EC 120
	01.00		W		WHLR 18
10	02.00		WTH		WHLR 214
	02.00		F		WHLR 18
	02.00	M			0875 101
11	02.00	M			WHLR 113
	02.00	T	TH		WHLR 207
	02.00		F		WHLR 18
12	03.00	T	F		H EC 120
	03.00		W		WHLR 18
	03.00	M			MAIN 101

LAB-3 00 M-SECT RESTRICTED SEE NOTE
BELOW

13	03.00	T	THF		WHLR 113
	03.00	M			WHLR 18
14	04.00	M	W	F	WHLR 207
	04.00		TH		WHLR 18
15	04.00	MT	TH		WHLR 113
	04.00		W		WHLR 18
16	06.00-07.25 PM	T	TH		WHLR 207
	05.00	T			WHLR 18
17	06.00-07.25 PM	M	W		UNIT 1 101
	05.00		W		WHLR 18

SEE FR LISTING FOR FR CONVERSATION

GSD 123B Sect 6, 12 Restricted to students
who were enrolled in special sections 7 or
11 of GSD 123A fall quarter.

123C ELEMENTARY FRENCH 03.0 CR
PREREQ GSD 123B

1	04.00	M	W	F	UNIT 10 101
	04.00		TH		WHLR 18

SEE FR LISTING FOR FR CONVERSATION

126A	ELEMENTARY GERMAN				03.0 CR
1	08.00	MT	F		WHLR 207
	08.00		W		WHLR 18
2	11.00	M	W	F	WHLR 212
	11.00		TH		WHLR 18
3	12.00	TW	F		0871 102
	12.00	M			WHLR 18
4	01.00	M	W	F	BAILEY 130
	01.00	T			WHLR 18
5	06.00-07.25 PM	T	TH		WHLR 212
	05.00		TH		WHLR 18

SEE GER LISTING FOR GER CONVERSATION

126B	ELEMENTARY GERMAN				03.0 CR
	PREREQ GSD 126A				
1	08.00	M	W	F	WHLR 212
	08.00		TH		WHLR 18
SECT 1 MUST ENROLL IN GER 126B SECT 1					
2	08.00	M	W	F	H EC 104
	08.00		TH		WHLR 18
3	09.00	M	W	F	WHLR 214
	09.00			S	WHLR 18
4	09.00	M	W	F	0871 102
	09.00			S	WHLR 18
5	10.00	M	W	F	WHLR 212
	10.00		TH		WHLR 18
6	11.00	M	W	F	0871 102
	11.00			S	WHLR 18

7	12.00	MT F	WHLR	212	
	12.00	W	WHLR	18	
8	01.00	T F	H EC	118	
	01.00	W	UNIT 2	101	
	01.00	TH	WHLR	18	
9	01.00	M W F	0871	102	
	01.00	TH	WHLR	18	
10	02.00	M W F	H EC	104	
	02.00	TH	WHLR	18	
11	02.00	M W F	WHLR	203	
	02.00	TH	WHLR	18	
12	03.00	M W F	WHLR	212	
	03.00	T	WHLR	18	
13	03.00	M W F	GYM	204	
	03.00	T	WHLR	18	
14	04.00	M W F	WHLR	212	
	04.00	T	WHLR	18	
15	06.00-07.25 PM	M W	WHLR	212	
	07.35-08.25 PM	W	WHLR	18	
SEE GER LISTING FOR GER CONVERSATION					
126C	ELEMENTARY GERMAN			03.0 CR	
	PREREQ GSD 126B				
1	04.00	M W F	WHLR	107	
	04.00	T	WHLR	18	
SEE GER LIST FOR GER CONV					
130B	ELEMENTARY GREEK			03.0 CR	
	PREREQ GSD 130A				
1	10.00	M W F	PULL	43	
133B	ELEMENTARY LATIN			03.0 CR	
	PREREQ GSD 133A				
1	01.00	T TH	PHY SC	410	SHELBY THOMAS M
	01.00	F	AG	218	
135B	ELEM PORTUGUESE			03.0 CR	
	PREREQ GSD 135A				
1	TO BE ARRANGED				HEVERLY CLEMENT F
	09.00	TH	WHLR	18	HEVERLY CLEMENT F
2	10.00	M TH	WHAM	212	HEVERLY CLEMENT F
	10.00	T	H EC	122	HEVERLY CLEMENT F
	10.00	W	WHLR	18	
3	01.00	TW F	WHAM	212	HEVERLY
	01.00	M	WHLR	18	HEVERLY
SEE PORT LISTING FOR PORT CONVERSATION					
136A	ELEMENTARY RUSSIAN			03.0 CR	
1	10.00	M	AG	218	
	10.00	W F	WHAM	301B	
	10.00	T	WHLR	18	
SEE RUSS. LISTING FOR RUSS. CONVERSATION					
136B	ELEMENTARY RUSSIAN			03.0 CR	
	PREREQ GSD 136A				
1	08.00	MTW	H EC	106	
	08.00	F	WHLR	18	
2	10.00	M W	H EC	208	
	10.00	F	WHLR	107	
	10.00	T	WHLR	18	
3	02.00	TW F	H EC	118	
	02.00	M	WHLR	18	
4	06.00-07.25 PM	M W	H EC	104	
	07.35-08.25 PM	M	WHLR	18	
140A	ELEMENTARY SPANISH			03.0 CR	
1	08.00	M W F	WHLR	214	
	08.00	S	WHLR	18	
2	08.00	MT TH	GYM	203	
	08.00	S	WHLR	18	
3	09.00	M W	UNIT 2	101	
	09.00	T	0861	18	
4	09.00	M W	COMM	1018	
	09.00	T	WHLR	18	
	09.00	TH	H EC	102	
SEE SPAN LISTING FOR SPAN CONVERSATION					
5	10.00	M W F	WHLR	214	
	10.00	S	WHLR	18	

GSD

6	11.00	T TH	PIERCE	130
	11.00	M	UNIT13	101
	11.00	F	WHLR	18
7	02.00	MT F	WHLR	214
	02.00	W	WHLR	18
8	02.00	M	GYM	204
	02.00	T F	WHLR	107
	02.00	W	WHLR	18
9	03.00	M W F	WHLR	214
	03.00	TH	WHLR	18
10	04.00	M WTH	PULL	43
	04.00	F	WHLR	18
11	06.00-07.25 PM	M W	GYM	203
	05.00	M	WHLR	18
140B	ELEMENTARY SPANISH			03.0 CR
	PREREQ SPAN 140A			
1	TO BE ARRANGED			
	09.00	F	WHLR	18
2	08.00	TW F	H EC	201
	08.00	M	WHLR	18
3	08.00	TW F	AG	152
	08.00	M	WHLR	18
4	09.00	T TH S	0861	102
	09.00	F	WHLR	18
5	10.00	T TH	0861	102
	10.00	M	UNIT13	101
	10.00	F	WHLR	18
6	10.00	MT TH	UNIT14	101
	10.00	F	WHLR	18
7	11.00	M W F	UNIT 4	101
	11.00	T	WHLR	18
8	11.00	W	WHLR	107
	11.00	TH S	WHLR	214
	11.00	T	WHLR	18
9	11.00	MT TH	UNIT14	101
	11.00	F	WHLR	18
10	12.00	M W F	COMM	1022
	12.00	TH	WHLR	18
11	12.00	M W F	WHLR	214
	12.00	TH	WHLR	18
12	01.00	MT TH	WHLR	214
	01.00	F	WHLR	18
13	01.00	MT	PULL	41
	01.00	TH	UNIT10	101
	01.00	F	WHLR	18
14	02.00	M	UNIT14	101
	02.00	W	H EC	122
	02.00	T	WHLR	18
	02.00	TH	AG	170
15	02.00	M W F	COMM	2012
	02.00	T	WHLR	18
16	02.00	MT	PULL	39
	02.00	W	WHLR	18
	02.00	TH	WHAM	305
17	03.00	MT TH	UNIT14	101
	03.00	F	WHLR	18
18	03.00	MT TH	H EC	118
	03.00	F	WHLR	18
19	03.00	M F	PULL	41
	03.00	T	PULL	39
	03.00	TH	WHLR	18
20	04.00	TW F	H EC	104
	04.00	M	WHLR	18
21	04.00	T THF	H EC	102
	04.00	M	WHLR	18
22	06.00-07.25 PM	T TH	WHLR	214
	07.35-08.25 PM	T	WHLR	18
23	06.00-07.25 PM	M W	WHLR	214
	05.00	M	WHLR	18
24	07.35-09.00 PM	M W	WHLR	207
	06.00	PM W	WHLR	18

SEE SPAN LISTING FOR SPAN CONVERSATION

25	07.35-09.00 PM	T TH	H EC	122
	06.00 PM	TH	WHLR	18
140C	ELEMENTARY SPANISH		03.0 CR	
	PREREQ SPAN 140B			
1	10.00	TW F	UNIT13	101
	10.00	S	WHLR	18
2	12.00	M WTH	WHAM	328
	12.00	F	WHLR	18
3	12.00	M WTH	PULL	43A
	12.00	F	WHLR	18
4	06.00-07.25 PM	T TH	H EC	122
	07.35-08.25 PM	T	WHLR	18
	SEE SPAN LISTING FOR SPAN CONVERSATION			
144B	ELEMENTARY ITALIAN		03.0 CR	
	PREREQ GSD 144A			
1	09.00	T	0871	102
	09.00	TH	WHLR	18
	09.00	W	CL	25
	09.00	F	WHLR	203
2	01.00	T TH	WHLR	203
	01.00	F	WHLR	107
	01.00	M	WHLR	18
3	06.00-07.25 PM	T TH	WHLR	113
	07.35-08.25 PM	M	WHLR	18

General Studies Area E—Health and Physical Development (GSE)

100B	RESTRICTED P E		01.0 CR	
1	10.00	M W F	ARENA	555 GREENE NORMAN C
2	11.00	M W F	ARENA	555 GREENE NORMAN C
3	11.00	T TH	ARENA	555 CKITA TED Y
	08.00	T	LAWSON	151 ACKERMAN KENNETH
101A	SWIMMING-BEGINNING		01.0 CR	
1	10.00-10.40	M W F	PULL	11 FOLDER LYNN C
2	10.40-11.20	M W F	PULL	11 CARRCLL PETER
3	11.20-12.00	M W F	PULL	11 CARRCLL PETER
4	12.00	M W F	PULL	11 CARRCLL PETER
5	07.00 PM	MT TH	PULL	11 CARRCLL PETER
6	08.00 PM	MT TH	PULL	11 CARRCLL PETER
101B	SWIMMING - INTERMED		01.0 CR	
1	08.00-09.50	S	PULL	11 MILES J
2	10.00-11.50	S	PULL	11 MILES J
3	12.00	T TH	PULL	11 WILKINSON JAMES J
4	07.00-08.50 PM	W	PULL	11 CARRCLL PETER
102	PHYSICAL FITNESS		01.0 CR	
1	08.00	M F	ARENA	555 BOLICK
	08.00	T	LAWSON	151 ACKERMAN KENNETH
2	08.00	T TH	ARENA	555 REESE
	09.00	M	LAWSON	171 ACKERMAN KENNETH
3	08.00	W S	ARENA	555 ACKERMAN KENNETH
	08.00	T	LAWSON	151 ACKERMAN KENNETH
4	08.00	M F	ARENA	555
	09.00	M	LAWSON	171 ACKERMAN KENNETH
5	08.00	T	LAWSON	151 ACKERMAN KENNETH
	09.00	T TH	ARENA	555
6	09.00	M F	ARENA	555 BOLICK
	08.00	T	LAWSON	151 ACKERMAN KENNETH
7	09.00	T TH	ARENA	555 REESE
	09.00	M	LAWSON	171 ACKERMAN KENNETH
8	09.00	W S	ARENA	555
	09.00	M	LAWSON	171 ACKERMAN KENNETH
9	10.00	M F	ARENA	555
	11.00	TH	LAWSON	171 ACKERMAN KENNETH
10	10.00	T TH	ARENA	555 REESE
	09.00	M	LAWSON	171 ACKERMAN KENNETH
11	10.00	W S	ARENA	555
	08.00	T	LAWSON	151 ACKERMAN KENNETH
12	10.00	T TH	ARENA	555
	12.00	F	LS I	133 ACKERMAN KENNETH
13	11.00	M F	ARENA	555
	11.00	TH	LAWSON	171 ACKERMAN KENNETH
14	11.00	T TH	PULL	103 WILKINSON JAMES J
	12.00	F	LS I	133 ACKERMAN KENNETH

GSE

15	11.00	W S	ARENA	555	
	11.00	TH	LAWSON	171	ACKERMAN KENNETH
16	11.00	TH	LAWSON	171	ACKERMAN KENNETH
	08.00	T TH	ARENA	555	
17	11.00	TH	LAWSON	171	ACKERMAN KENNETH
	12.00	T F	ARENA	555	
18	12.00	M W	ARENA	555	BOLICK
	12.00	F	LS I	133	ACKERMAN KENNETH
19	01.00	M W	ARENA	555	BOLICK
	03.00	W	LAWSON	151	ACKERMAN KENNETH
20	01.00	T TH	PULL	103	
	03.00	W	LAWSON	151	ACKERMAN KENNETH
21	01.00	M W	ARENA	555	JONES
	12.00	F	LS I	133	ACKERMAN KENNETH
22	01.00	T F	ARENA	555	
	03.00	W	LAWSON	151	ACKERMAN KENNETH
23	02.00	M W	ARENA	555	
	12.00	F	LS I	133	ACKERMAN KENNETH
24	02.00	T F	ARENA	555	
	03.00	W	LAWSON	151	ACKERMAN KENNETH
25	02.00	M W	ARENA	555	
	03.00	W	LAWSON	151	ACKERMAN KENNETH
26	02.00	T F	ARENA	555	
	11.00	TH	LAWSON	171	ACKERMAN KENNETH
27	03.00	W	LAWSON	151	ACKERMAN KENNETH
	12.00	M W	ARENA	555	JONES
103A	SQ AND SOC DANCE		01.0 CR		
1	10.00	T TH S	GYM	114	KORANDO CATHERINE A
2	04.00-05.30	M W	GYM	114	KORANDO CATHERINE A
3	04.00-05.30	T TH	GYM	206	KORANDO CATHERINE A
4	06.00-07.30 PM	T TH	GYM	114	
5	07.00-08.30 PM	M	GYM	114	KORANDO CATHERINE A
	CROSSLISTED ALL SECTIONS WITH GSE 113A				
103C	DANCE-SOCIAL		01.0 CR		
1	11.00-12.30	T TH	GYM	114	SHEARER
	CROSSLISTED WITH GSE 113C				
104C	ACTIVITY-BASKETBALL		01.0 CR		
1	08.00	M W F	ARENA	555	LUTZ ROLLIN J
2	08.00	T TH S	ARENA	555	
3	08.00	M W F	PULL	103	BELL LARRY R
4	08.00-09.30	T TH	PULL	103	BELL LARRY R
5	08.40-09.30	M W F	ARENA	555	LUTZ ROLLIN J
6	08.40-09.30	T TH S	ARENA	555	
7	09.20-10.10	M W F	ARENA	555	JONES RICHARD C
8	09.20-10.10	T TH S	ARENA	555	
9	10.00	M W F	ARENA	555	
10	10.00	T TH S	ARENA	555	
11	01.00	M W F	ARENA	555	FOLDER LYNN C
104D	ACTIVITY-BOWLING		01.0 CR		
1	08.00	MT TH	U CTR	48	MEADE
2	08.00	W FS	U CTR	48	
3	09.00	MT TH	U CTR	48	MAZIE
4	09.00	W FS	U CTR	48	LEFEVRE JOHN R
5	10.00	MT TH	U CTR	48	HARTZOG LEWIS B
6	10.00	W FS	U CTR	48	
7	11.00	MT TH	U CTR	48	HARTZOG
8	11.00	W FS	U CTR	48	
9	12.00	M W F	U CTR	48	
10	12.00-01.30	T TH	U CTR	48	
11	01.00	M W F	U CTR	48	
12	01.30-03.00	T TH	U CTR	48	
13	02.00	M W F	U CTR	48	
14	03.00	M W F	U CTR	48	
15	03.00-04.30	T TH	U CTR	48	
16	04.00	M W F	U CTR	48	
	FEE REQUIRED				
104F	ACTIVITY-SOCCER		01.0 CR		
1	01.00	M W F	ARENA	555	SOMMERS PAUL A
104R	ACTIVITY-STUNTS		01.0 CR		
1	10.00	M WTH	ARENA	555	MAZIE ROBERT
2	11.00	M WTH	ARENA	555	MAZIE ROBERT

104S	ACTIVITY-GYMNASTICS		01.0	CR	
1	11.00	M WTH	ARENA	555	MARTIN
2	12.00	M W F	ARENA	555	
104U	ACTIVITY-WRESTLING		01.0	CR	
1	12.00-01.30	T F	ARENA	555	DEVINE DON
2	01.00	M W F	ARENA	555	DEVINE DON
3	01.00-02.30	T F	ARENA	555	
4	02.00	M W F	ARENA	555	DEVINE DON
104W	ACTIVITY-JUDO		01.0	CR	
1	11.00-12.30	T TH	ARENA	555	FRANKLIN C C JR
105	WEIGHT CONTROL		01.0	CR	
1	09.00	M W F	ARENA	555	KNOWLTON RONALD G
110B	RESTRICTED P E		01.0	CR	
1	03.00	M W F	GYM	114	COTTEN SARAH ELLEN
111A	SWIMMING-BEGINNING		01.0	CR	
1	01.00	M W F	PULL P	11	WHYMAN DEANNA MAE
111B	SWIMMING-INTERMED		01.0	CR	
	PREREQ GSE 111A	CR EQUIVALENT			
1	09.00-10.30	T TH	PULL	11	COOPER CAROL
2	10.00-11.30	T TH	PULL	11	COOPER CAROL
3	01.00	M W F	PULL	11	
112	EXERCISE FOR FITNES		01.0	CR	
1	08.00	T TH S	GYM	208	
2	10.00	M W F	GYM	207	COOPER CAROL
3	12.00	M W F	GYM	207	
4	12.00	TWTH	GYM	207	
5	03.00	M W F	GYM	207	
6	03.00	TWTH	GYM	207	
113A	SQUARE DANCE		01.0	CR	
1	10.00	T TH S	GYM	114	
2	04.00-05.30	M W	GYM	114	
3	04.00-05.30	T TH	GYM	114	
4	06.00-07.30 PM	T TH	GYM	114	
5	07.00-08.30 PM	M W	GYM	114	LITHERLAND BARBARA A
	CROSS-LISTED GSE 103A				
113B	DANCE-FOLK		01.0	CR	
1	09.00	M W F	GYM	114	
2	12.00	M W F	GYM	114	STEH R JEAN
3	07.00-08.30 PM	T TH	GYM	208	STEH R
113C	SOCIAL DANCE		01.0	CR	
1	11.00-12.30	T TH	GYM	114	
	CROSSLISTED GSE 103C				
113D	DANCE-BEG CONTEMP		01.0	CR	
1	08.00	M W F	GYM	208	
2	01.00	M W F	0813	101	
3	02.00	M W F	GYM	208	LITHERLAND BARBARA A
113E	DANCE-INT CONTEMP		01.0	CR	
1	09.00	T THF	GYM	208	DAVIDSON ELLEVA J
2	10.00	T THF	GYM	208	LITHERLAND BARBARA A
114B	ACTIVITY-BADMINTCN		01.0	CR	
1	08.00	M TH	GYM	207	
	02.00	TH	GYM	207	
2	08.00	T F	GYM	207	
	02.00	TH	GYM	207	
3	08.00	W S	GYM	207	
	11.00	F	GYM	207	
4	09.00	M TH	GYM	207	
	02.00	T	GYM	207	
5	09.00	T F	GYM	207	
	02.00	T	GYM	207	
6	09.00	W S	GYM	207	
	11.00	F	GYM	207	
114C	ACTIVITY-BASKETBALL		01.0	CR	
1	09.00	M W S	GYM	208	
2	01.00	M W F	GYM	208	
114D	ACTIVITY-BOWLING		01.0	CR	
1	08.00	M W F	U CTR	48	
2	09.00	M W F	U CTR	48	
3	10.00	TW F	U CTR	48	
4	10.00	M TH S	U CTR	48	
5	11.00	M W F	U CTR	48	
6	11.00	T TH S	U CTR	48	

7	12.00	M W F	U CTR	48	
8	12.00-01.30	T TH	U CTR	48	COOPER CAROL
9	01.00-02.30	T TH	U CTR	48	COOPER CAROL
10	02.00	M W F	U CTR	48	
11	02.00-03.30	T TH	U CTR	48	
12	03.00	M W F	U CTR	48	
13	03.00-04.30	T TH	U CTR	48	
14	04.00	M W F	U CTR	48	
114I	ACTIVITY-VOLLEYBALL		01.0 CR		
1	10.00	M W S	GYM	207	
2	01.00-02.30	T TH	GYM	208	
3	02.00-03.30	T TH	GYM	208	
4	06.00 PM	M WTH	GYM	208	
5	07.00-08.30 PM	M W	GYM	207	
114M	ACTIVITY-FENCING		01.0 CR		
1	09.00-10.30	T TH	GYM	114	MCORE BILLIE JEAN
2	12.00-01.30	T TH	GYM	114	KUHAJDA PATRICIA F
3	01.00	M W F	GYM	114	ILLNER JULEE
4	01.00-02.30	T TH	GYM	114	BRECHTELSBAUER KAY
5	02.00	M W F	GYM	114	ILLNER JULEE
6	02.00-03.30	T TH	GYM	114	BRECHTELSBAUER KAY
7	03.00-04.30	T TH	GYM	114	COTTEN SARAH ELLEN
8	05.00-06.30	T TH	GYM	114	COTTEN SARAH ELLEN
9	05.00-06.30	M W	GYM	114	KUHAJDA PATRICIA F
10	06.00-07.30 PM	M W	GYM	114	KUHAJDA
114P	ACTIVITY-GYM + TUMB		01.0 CR		
1	05.00	MTW	GYM	207	KORANDO
2	06.00-06.30 PM	MTW	GYM	207	HOLT
114S	INTERMED BOWLING		01.0 CR		
1	01.00	M W F	U CTR	48	
201	HEALTHFUL LIVING		03.0 CR		
1	08.00	M W F	BAILEY	130	
2	08.00	M W F	ARENA	119	
3	08.00	M W F	ARENA	121	
4	08.00	M W F	ARENA	123	
5	09.00	M W F	H EC	102	
6	09.00	M WTH	TECH A	222	
7	09.00	M W F	TECH A	310	
8	09.00	M W F	H EC	206	
9	09.00	M W F	COMM	1022	
10	10.00	M W F	ARENA	121	
11	10.00	M W F	ARENA	119	
12	11.00	M WTH	H EC	102	
13	11.00	M WTH	H EC	118	
14	11.00	M W F	TECH A	222	
15	11.00	M W F	TECH A	310	
16	11.00	M WTH	H EC	206	
17	11.00	M W	COMM	1022	
	11.00	F	LAWSON	221	
18	11.00	M W F	ARENA	121	
19	11.00	T TH	LS I	133	
	01.00	TH	ARENA	119	
20	11.00	T TH	LS I	133	
	02.00	TH	BAILEY	130	
21	11.00	T TH	LS I	133	
	08.00	F	ARENA	125	
22	11.00	T TH	LS I	133	
	10.00	F	BAILEY	130	
23	11.00	T TH	LS I	133	
	11.00	F	LAWSON	231	
24	11.00	T TH	LS I	133	
	01.00	TH	PHY SC	218	
25	11.00	T TH	LS I	133	
	02.00	TH	AG	150	
26	11.00	T TH	LS I	133	
	08.00	F	PHY SC	116	
27	11.00	T TH	LS I	133	
	10.00	F	GYM	204	
28	11.00	T TH	LS I	133	
	11.00	F	UNIT13	101	
29	12.00	MT TH	PHY SC	118	
30	12.00	M WTH	PHY SC	218	

31	12.00	M		PARK	124
	12.00		TH	WHAM	105
	01.00		TH	TECH A	310
32	12.00	M		PARK	124
	12.00		TH	WHAM	105
	02.00		TH	PIERCE	130
33	12.00	M		PARK	124
	12.00		TH	WHAM	105
	08.00		F	AG	188
34	12.00	M		PARK	124
	12.00		TH	WHAM	105
	10.00		F	LS I	16
35	12.00	M		PARK	124
	12.00		TH	WHAM	105
	01.00		F	ARENA	123
36	12.00	M		PARK	124
	12.00		TH	WHAM	105
	01.00		TH	UNIT 1	101
37	12.00	M		PARK	124
	12.00		TH	WHAM	105
	02.00		TH	LS I	16
38	12.00	M		PARK	124
	12.00		TH	WHAM	105
	08.00		F	AG	216
39	12.00	M		PARK	124
	12.00		TH	WHAM	105
	10.00		F	LS I	205
40	12.00	M		PARK	124
	12.00		TH	WHAM	105
	12.00		F	TECH A	322
41	01.00	M W		H EC	102
	01.00		F	COMM	1022
42	01.00	M W		H EC	118
	01.00		TH	COMM	1018
43	01.00	M W F		H EC	201
44	01.00	M WTH		H EC	206
45	01.00	M W F		ARENA	119
46	02.00	M W F		ARENA	121
47	02.00	M WTH		ARENA	123
48	02.00	M		ARENA	119
	02.00	T TH		ARENA	121
49	02.00	T TH		LAWSON	171
	03.00		TH	AG	144
50	02.00	T TH		LAWSON	171
	04.00		TH	ARENA	119
51	02.00	T TH		LAWSON	171
	08.00		F	PIERCE	130
52	02.00	T TH		LAWSON	171
	10.00		F	WHAM	206
53	02.00	T TH		LAWSON	171
	10.00		F	WHAM	329
54	02.00	T TH		LAWSON	171
	03.00		TH	AG	158
55	02.00	T TH		LAWSON	171
	04.00		TH	ARENA	121
56	02.00	T TH		LAWSON	171
	08.00		F	AG	214
57	02.00	T TH		LAWSON	171
	10.00		F	WHAM	208
58	02.00	T TH		LAWSON	171
	08.00		F	COMM	1018
59	06.00-07.25 PM	M W		ARENA	123

SCHEDULE OF DEPARTMENTAL COURSES

COURSE & SECTION NO.	TITLE & HOURS	DAYS	BLDG. & RM.	INSTRUCTOR
Accounting (ACCT)				
250	ACCT FUNDAMENTALS		04.0 CR	
1	10.00	MT THF	LAWSON 131	
251A	FINANCIAL ACCT		04.0 CR	
	PREREQ SOPHOMORE STANDING			

1	11.00	T	LAWSON	171
	08.00	M W	CL	18
	11.00	F	LAWSON	151
2	11.00	T	LAWSON	171
	10.00	W S	CL	12
	11.00	F	LAWSON	151
3	11.00	T	LAWSON	171
	11.00	W S	CL	18
	11.00	F	LAWSON	151
4	11.00	T	LAWSON	171
	12.00	M W	LAWSON	231
	11.00	F	LAWSON	151
5	11.00	T	LAWSON	171
	01.00	M W	CL	18
	11.00	F	LAWSON	151
6	11.00	T	LAWSON	171
	02.00	M W	CL	18
	11.00	F	LAWSON	151
251B	FINANCIAL ACCT		04.0	CR
	PREREQ ACCT 251A			
1	04.00	M	LAWSON	151
	08.00	T THF	CL	12
2	04.00	M	LAWSON	151
	09.00	W	CL	12
	09.00	TH S	CL	18
3	04.00	M	LAWSON	151
	11.00	THFS	CL	12
4	04.00	M	LAWSON	151
	11.00	T THF	CL	18
5	04.00	M	LAWSON	151
	01.00	T THF	CL	18
6	04.00	M	LAWSON	151
	02.00	T THF	CL	18
7	04.00	M	LAWSON	151
	04.00	T THF	CL	18
8	05.45-07.25	T TH	CL	18
261	MANAGEMENT ACCT		04.0	CR
	PREREQ ACCT 251B AND MATH 111A			
1	04.00	TH	LAWSON	151
	08.00	M W	CL	12
	08.00	F	CL	18
2	04.00	TH	LAWSON	151
	10.00	MT F	CL	12
3	04.00	TH	LAWSON	151
	11.00	MTW	CL	12
4	04.00	TH	LAWSON	151
	03.00	MTW	CL	12
5	05.45-07.25	T TH	CL	12
315	EDP IN BUSINESS		04.0	CR
	PREREQ ACCT 261			
1	08.00	MTW	AG	158
	08.00	TH	LAWSON	151
2	01.00	MTW	PARK	111
	08.00	TH	LAWSON	151
3	03.00	MTW	LAWSON	101
	08.00	TH	LAWSON	151
331	TAX ACCOUNTING		04.0	CR
	PREREQ ACCT 261			
1	10.00	MT THF	CL	18
341	COST ACCOUNTING		04.0	CR
	PREREQ ACCT 261			
1	12.00	M WTHF	CL	18
351A	INTERMEDIATE ACCT		04.0	CR
	PREREQ ACCT 261			
1	03.00	MT THF	CL	18
351B	INTERMEDIATE ACCT		04.0	CR
	PREREQ ACCT 351A			
1	09.00	MT THF	CL	12
2	02.00	MT THF	CL	12
432	PROB IN FED TAX		04.0	CR
	PREREQ ACCT 331			
1	01.00	MT THF	CL	12

442 ADV COST ACCOUNTING 04.0 CR
 PREREQ ACCT 341
 1 09.00 MTW F CL 18
 2 04.00 TWTHF CL 12
 459 INTERNSHIP IN ACCT 04.0 CR
 PREREQ CONSENT OF INTERNSHIP
 COMMITTEE
 1 TO BE ARRANGED

Aerospace Studies (A S)

100A CORPS TRAINING 00.0 CR
 1 10.00 T PULL 42 STALEY HENRY A
 102 US DEF ORGANIZATION 01.0 CR
 1 09.00 T WHLR 113 STALEY HENRY A
 2 09.00 TH WHLR 113 MURPHY EDWARD C
 3 11.00 T WHLR 113 STALEY HENRY A
 4 11.00 TH WHLR 113 MURPHY EDWARD C
 200A CORPS TRAINING 00.0 CR
 1 10.00 T PULL 42 STALEY HENRY A
 202 AEROSPACE SUPPORT 01.0 CR
 PREREQ AS 101, 102, 103
 1 09.00 W WHLR 113 STALEY HENRY A
 2 11.00 W WHLR 113 STALEY HENRY A
 300 CORPS TRAINING 00.0 CR
 1 10.00 T PULL 42 STALEY HENRY A
 302 AEROSPACE STUDIES 03.0 CR
 PREREQ AS 301
 1 10.00 M WTH WHLR 107 CUFALD PAUL P
 2 02.00 M WTH WHLR 107 CUFALD PAUL P
 340 CORPS TRAINING 00.0 CR
 1 10.00 T PULL 42 STALEY HENRY A
 352 A S LEADERSHIP 03.0 CR
 1 09.00 M WTH WHLR 107 ENGLAND LAWRENCE
 2 01.00 M WTH WHLR 107 ENGLAND LAWRENCE

Agricultural Industries (AG I)

204 INTRO AG ECONOMICS 04.0 CR
 1 03.00 MTW AG 156 FERR WILLIAM M
 03.00 TH AG 155 FERR WILLIAM M
 2 03.00 MTW AG 166 FERR WILLIAM M
 03.00 F AG 155 FERR WILLIAM M
 3 03.00 MTW AG 156 FERR WILLIAM M
 04.00 TH AG 225 FERR WILLIAM M
 210 INTRO TO AG EDUC 02.0 CR
 1 04.00 M W AG 214 BENTON RALPH A
 215 STRUCTURES + ELECT 04.0 CR
 1 03.00 T TH AG 225 DOERR WILLIAM A
 01.00-02.50 M W AG 102A DOERR WILLIAM A
 2 03.00 T TH AG 225 DOERR WILLIAM A
 03.00-04.50 M W AG 102A DOERR WILLIAM A
 3 03.00 T TH AG 225 DOERR WILLIAM A
 08.00-09.50 M W AG 102A DOERR WILLIAM A
 309 AGRICULTURAL EDUC 04.0 CR
 PREREQ S ED 310, AG I 311, + 48 HRS I
 N AGRICULTURE
 1 09.00-11.50 MTWTHF AG 155 WOOD
 312B VO-AG STUDENT TEACH 10.0 CR
 PREREQ AG I 312A
 1 TO BE ARRANGED WOOD
 350 FARM MANAGEMENT 05.0 CR
 PREREQ AG I 204 CR GSB 211A
 1 10.00 MTW F AG 225 LANGFORD GORDON
 10.00-11.50 S AG 225 LANGFORD GORDON
 2 10.00 MTW F AG 225 LANGFORD GORDON
 10.00-11.50 TH AG 132 LANGFORD GORDON
 351 FARM FINANCIAL MGT 04.0 CR
 PREREQ AG I 350 CR CONSENT OF INSTR
 1 02.00 MTW AG 225 HERR WILLIAM M
 01.00-02.50 TH AG 225 HERR WILLIAM M
 359 INTERN PROGRAM 03.0 TO 05.0 CR
 PREREQ JR STANDING
 1 TO BE ARRANGED

373	FARM POWER AND MACH	05.0 CR			
	PREREQ GSD 107A				
1	11.00 MT TH AG 225	PATERSON JOHN J			
	01.00-02.50 W F 0831 101	PATERSON JOHN J			
2	11.00 MT TH AG 225	PATERSON JOHN J			
	10.00-11.50 W F 0831 101	PATERSON JOHN J			
3	11.00 MT TH AG 225	PATERSON JOHN J			
	08.00-09.50 W F 0831 101	PATERSON JOHN J			
4	11.00 MT TH AG 225	PATERSON JOHN J			
	03.00-04.50 W F 0831 101	PATERSON JOHN J			
381	AGRI SEMINAR 01.0 TO 02.0 CR				
	PREREQ SENIORS ONLY				
1	04.00 T AG 214	BUILA THEODORE			
	CROSSLISTED WITH PL I 381 + AN I 381				
390	SPEC STUD AG I 01.0 TO 06.0 CR				
	PREREQ CONSENT OF DEPT CHAIRMAN				
1	TO BE ARRANGED	WILLS WALTER J			
391	HONORS IN AG INDUST 01.0 TO 06.0 CR				
	PREREQ JR STAND, 4.0 GPA(4.25 IN MAJ) ,+ CONSENT OF DEPT CHM				
1	TO BE ARRANGED				
417	AGRIC DEVELOPMENT 04.0 CR				
	PREREQ AG I 204 CR GSB 211A				
1	08.00 MTW F AG 225	KEEPPER WENDELL E			
456A	AG MKTG - COOPS 03.0 CR				
	PREREQ AG I 354, CR CONSENT OF INSTR				
1	03.00 M W AG 225	WILLS WALTER J			
	03.00 T AG 168	WILLS WALTER J			
456D	AG MKTG-DAIRY-POULT 02.0 CR				
	PREREQ AG I 354, CR CONSENT OF INSTR				
1	12.00 W F AG 155	SOLVERSON LYLE			
	CROSSLISTED WITH AN I 456D				
456E	AG MKTG-HORT CROPS 02.0 CR				
	PREREQ AG I 354, CR CONSENT OF INSTR				
1	12.00 T TH AG 225				
485	PRIN-PHIL VO TEC ED 03.0 CR				
	PREREQ STUDENT TEACHING OR CONSENT OF DEPARTMENT				
1	06.00-08.30 PM M TECH D 130	RAMP, WAYNE			
505	AG IND RES METHODS 03.0 CR				
	PREREQ CONSENT OF DEPT CHAIRMAN				
1	09.00 MTW AG 225	CSBURN DONALD D			
520	READINGS 01.0 TO 06.0 CR				
1	TO BE ARRANGED	WILLS WALTER J			
575	RESEARCH 01.0 TO 06.0 CR				
1	TO BE ARRANGED	WILLS WALTER J			
581	SEMINAR 01.0 TO 06.0 CR				
1	04.00 M AG 155	WILLS WALTER J			
599	THESIS 01.0 TO 09.0 CR				
1	TO BE ARRANGED	WILLS WALTER J			

Animal Industries (ANI)

311A	EVAL + SEL FARM ANI	02.0 CR			
	PREREQ AN I 121				
1	02.00-04.50 F AG 120				
	ABOVE SECT OFFERED FCR2 CREDITS ONLY				
2	03.00-05.50 M AG 114	MILLER			
	03.00-04.50 W AG 114	MILLER HOWARD W			
	LIVESTOCK				
3	03.00-04.50 M W AG 132	GOODMAN			
	POULTRY				
315	FEEDS AND FEEDING	04.0 CR			
	PREREQ AN I 121				
1	09.00 T THF AG 166				
	09.00-10.50 M AG 120				
2	09.00 T THF AG 166				
	01.00-02.50 M AG 114				
3	09.00 T THF AG 166				
	09.00-10.50 W AG 120				
332	ANIM BREED + GENET	04.0 CR			
	PREREQ AN I 121, GSA 201B OR EQUIV				
1	01.00 MTWTH AG 166	GOODMAN			

381	AGRICULTURAL SEM	01.0 TO 02.0 CR			
	PREREQ SENIOR STANDING				
1	04.00	T	AG	214	MARICN
390	SPEC STUD AN I	01.0 TO 06.0 CR			
	PREREQ JR OR SR STANDING AND CONSENT OF DEPT CHAIRMAN				
1	TO BE ARRANGED				
431	REPRO PHSL-DOM ANIM	04.0 CR			
	PREREQ ONE COURSE IN PHYSIOLOGY				
1	11.00	MT F	AG	116	CLSCN HOWARD H
	10.00-11.50	W	AG	114	CLSCN HOWARD H
2	11.00	MT F	AG	116	CLSCN HOWARD H
	10.00-11.50	TH	AG	114	CLSCN HOWARD H
433	DAIRY CATTLE NUTRIT	03.0 CR			
	PREREQ AN I 315				
1	03.00	T TH	AG	114	
	01.00-02.50	F	AG	114	
456D	AG MKTG-DAIRY-POULT	02.0 CR			
	PREREQ GSB 211B CR CONSENT OF INSTR				
1	12.00	W F	AG	225	SOLVERSON LYLE
	CROSSLISTED WITH AG I 456D				
465	SWINE PRODUCTION	05.0 CR			
	PREREQ AN I 315, 332				
1	08.00	M WTHF	AG	116	BURNSIDE JOSEPH E JR
	08.00-09.50	T	AG	120	BURNSIDE JOSEPH E JR
480	SHEEP PRODUCTION	04.0 CR			
	PREREQ AN I 315, 332, 431				
1	01.00	MTW	AG	116	MILLER
	01.00-02.50	TH	AG	114	MILLER
505B	RES METH IN AG SCI	04.0 CR			
	PREREQ CONSENT CF INSTR				
1	01.00-02.50	MT	AG	120	BURNSIDE JOSEPH F JR
	01.00	W	AG	120	BURNSIDE JOSEPH E JR
520	READINGS IN AN IND	01.0 TO 06.0 CR			
1	TO BE ARRANGED				
525	ADV POULTRY PRODUCT	04.0 CR			
1	07.35-09.15 PM	M W	AG	132	HINNERS
575	INDIVIDUAL RESEARCH	01.0 TO 06.0 CR			
1	TO BE ARRANGED				
579	ANIMAL BEHAVIOR	04.0 CR			
	PREREQ CONSENT CF INSTR				
1	03.00	WTH	LS I	205	WARING GEORGE H
	01.00-04.50	F	LS I	204	WARING GEORGE H
	CROSSLISTED WITH ZCCLOGY				
581	SEMINAR	01.0 CR			
1	04.00	T	AG	114	
599	THESIS	01.0 TO 09.0 CR			
1	TO BE ARRANGED				

Anthropology (ANTH)

250	INTRODUCTORY ANTH	03.0 CR			
1	02.00	F	H EC	120	WALKER
	02.00	M W	H EC	203	
275D	INDIV STUDY-GENERAL	02.0 TO 18.0 CR			
	PREREQ CONSENT CF DEPT				
1	TO BE ARRANGED				
303	OLD WORLD PREHIST	03.0 CR			
	PREREQ GSB 102A CR ANTH 275D				
1	10.00	M W F	H EC	106	WEIGAND
305B	PEOPLE-CULT WORLD I	03.0 CR			
	PREREQ GSB 102A CR ANTH 275D				
1	01.00	M W F	H EC	106	MARING
306B	PEOPLE-CULT WRLD II	03.0 CR			
	PREREQ GSB 102A CR ANTH 275				
1	09.00	M W F	H EC	106	RILEY CARROLL LAVERN
403	GENERAL ARCHAEOLOGY	03.0 CR			
	PREREQ GSB 102A-4 OR ANTH 275D-4				
1	09.00-10.30	T TH	H EC	106	TAYLOR
407	GENERAL ETHNOLOGY	03.0 CR			
	PREREQ GSB 102A-4 OR ANTH 275D-4				
1	03.00-05.30	W	H EC	106	LANGE

408	HIST ANTH THOUGHT	03.0 CR	
	PREREQ GSB 102A-4 OR ANTH 275D-4		
1	02.00 M W F	H EC 106	ALTSCHULER MILTON
418	LANG OF WORLD	04.0 CR	
	PREREQ GSB 102A CR ANTH 275D		
1	03.00-05.30 F	H EC 106	GRIMES
442	COMPAR FOLKLORE	03.0 CR	
	PREREQ GSB 102A-4 OR ANTH 275D-4		
1	03.00-05.30 T	H EC 106	GUEMPLE
471A	ETHNOMUSICOLOGY	03.0 CR	
	PREREQ GSB 102A-4, ANTH 275D-4 OR CON SENT OF INSTRUCTOR		
1	07.00-09.30 PM T	ALTG 106	MARINO
483	INDIV STUDY IN ANTH	01.0 TO 18.0 CR	
	PREREQ GSB 102A CR ANTH 275D-4		
1	TO BE ARRANGED		
511	SEM MESO-AMER ARCH	03.0 TO 09.0 CR	
1	03.00 TH	H EC 12A	RANDS
545	SEMINAR LINGUISTICS	03.0 CR	
1	07.30-10.00 PM W	H EC 106	GRIMES
562	SEM-ANTH CONT PEOP	03.0 CR	
1	03.00-05.30 TH	H EC 106	ALTSCHULER
567	SEM-ANTH THRY + MET	03.0 TO 09.0 CR	
	PREREQ CONSENT OF DEPT		
1	10.00-12.30 M	H EC 122A	MULLER
581	SEM-ANTHROPOLOGY	03.0 CR	
	PREREQ CONSENT OF DEPT		
1	TO BE ARRANGED		TAYLOR
582	PROB-ARCHAEOLOGY	01.0 TO 27.0 CR	
	PREREQ CONSENT OF DEPT		
1	TO BE ARRANGED		
584	PROB-CULTURAL ANTH	01.0 TO 27.0 CR	
1	TO BE ARRANGED		
585	READINGS IN ANTH	01.0 TO 27.0 CR	
1	TO BE ARRANGED		
595A	FIELD METHODS-ETHNC	03.0 CR	
1	03.00-05.30 M	H EC 106	SCHUSKY
597	FIELDWORK IN ANTH	01.0 TO 27.0 CR	
1	TO BE ARRANGED		
599	THESIS	01.0 TO 09.0 CR	
1	TO BE ARRANGED		
600	DISSERTATION	01.0 TO 48.0 CR	
1	TO BE ARRANGED		

Applied Science (AP S)

300	UNIV PHYSICS IV	05.0 CR	
	PREREQ PHYS 111, 206, CR 211		
1	03.00 M W F	PARK 308	
	03.00 TH	PHY SC 116	
	04.00-05.50 TH	PHY SC 404	
	03.00 T	PARK 301	
2	03.00 M W F	PARK 308	
	03.00 TH	PHY SC 116	
	04.00-05.50 W	PHY SC 404	
	03.00 T	PARK 301	
	BOTH SECTIONS CROSS-LISTED WITH PHYSICS		
401B	X-RAY CRYSTALLOGPHY	04.0 CR	
1	04.00 M W	TECH B 141	
	03.00-04.50 F	TECH B 126	
410A	ELECT + INST FOR LS	04.0 CR	
1	12.00 M	TECH D 104	
	01.00 T TH	TECH D 131	
418	DIG COMP IN RESRCH	03.0 CR	
	PREREQ MATH 225		
1	02.00 M W F	TECH A 222	
422	PROGRAMMING SYSTEMS	03.0 CR	
	PREREQ ENGR 222, MATH 225 OR CONSENT OF INSTRUCTOR		
1	TO BE ARRANGED		
430	SPECIAL PROBLEMS	02.0 TO 08.0 CR	
	PREREQ CONSENT OF COORDINATOR		
1	TO BE ARRANGED		

501B	MATERIALS SCIENCE	04.0 CR
1	TO BE ARRANGED	
503B	PROP-CRYST MATERIAL	04.0 CR
1	TO BE ARRANGED	
504B	X-RAY DIFFRACTION	04.0 CR
	PREREQ GRAD STANDING	
1	TO BE ARRANGED	
521A	DES AUTO PROG LANG	03.0 CR
	PREREQ AP S 421	
1	TO BE ARRANGED	
570	SPECIAL INVESTIGAT	02.0 TO 06.0 CR
1	TO BE ARRANGED	
580	SEMINAR	01.0 TO 09.0 CR
1	TO BE ARRANGED	
599	THESIS	01.0 TO 09.0 CR
1	TO BE ARRANGED	

Art (ART)

100A	SCULPTURE-CRAFTS	04.0 CR	
1	08.00-09.50	M W F	ALLYN 112 ADDINGTON ALDON M
2	10.00-11.50	M W F	ALLYN 112 ADDINGTON ALDON M
100B	CRAFTS-SCULPTURE	04.0 CR	
1	12.00-01.50	M W F	ALLYN 112 BOYSEN BILL H
2	02.00-03.50	M W F	ALLYN 112 BOYSEN BILL H
100C	PAINTING-GRAPHICS	04.0 CR	
1	11.00-01.50	T TH	ALLYN 112 LINK LAWRENCE JOHN
2	04.00-05.50	M W F	ALLYN 112 LINK
100D	GRAPHICS-DRAWING	04.0 CR	
1	12.00-01.50	M W F	ALLYN 106 GREENFIELD SYLVIA R
2	02.00-03.50	M W F	ALLYN 106 WILDER STEPHEN D
100E	DRAWING-PAINTING	04.0 CR	
1	08.00-09.50	M W F	ALLYN 106 LITTLEFIELD
2	10.00-11.50	M W F	ALLYN 106 WILDER STEPHEN D
200A	SCULPTURE	04.0 CR	
	PREREQ ART 100(ABCDE)		
1	08.00-09.50	M W F	0549 101 WALSH THOMAS J
2	10.00-11.50	M W F	0549 101 WALSH THOMAS J
200B	DRAWING	04.0 CR	
	PREREQ ART 100(ABCDE)		
1	11.00-01.50	T TH	ALLYN 202 PAULSON
2	12.00-01.50	M W F	ALLYN 202 WILDER
200C	PAINTING	04.0 CR	
	PREREQ ART 100(ABCDE)		
1	02.00-03.50	M W F	ALLYN 202 LITTLEFIELD LEE F
2	02.00-04.50	T TH	ALLYN 202 LINK LAWRENCE JOHN
225B	INTRO TO ART HIST	03.0 CR	
1	11.00	T THF	LAWSON 141 COVINTREE GEORGE E
300	ART EDUCATION	02.0 TO 12.0 CR	
1	08.00	T TH	LAWSON 141 WOOD DANNY D
	10.00-11.50	T TH	PULL I 105 LAWSON ELNORA
2	08.00	T TH	LAWSON 141 WOOD DANNY D
	01.00-02.50	T TH	PULL I 105 WOOD DANNY D
3	08.00	T TH	LAWSON 141 WOOD DANNY D
	12.00-01.50	M W	PULL I 105 LAWSON ELNORA
4	08.00	T TH	LAWSON 141 WOOD DANNY D
	02.00-03.50	M W	PULL I 105 WOOD DANNY D
5	03.00-04.50	T TH	PULL I 105 LAWSON ELNORA
	08.00	T TH	LAWSON 141
302	POTTERY	04.0 TO 12.0 CR	
1	08.00-10.50	T TH	ALLYN 5 VERGETTE NICHOLAS
2	08.00-09.50	M W F	ALLYN 5 BOYSEN BILL H
3	02.00-04.50	T TH	ALLYN 5 VERGETTE NICHOLAS
306	MAT-TECH ART ED /P/	03.0 CR	
1	08.00-09.50	M W	PULL I 105 GREENFIELD SYLVIA R
320	ADVANCED PAINTING	02.0 TO 12.0 CR	
	PREREQ ART 100, ART 200		
1	10.00-11.50	M W F	ALLYN 202 CNKEN MICHAEL O
2	05.00-07.50	T TH	ALLYN 202 CNKEN MICHAEL O
332	JEWEL + SILVERSMITH	04.0 TO 12.0 CR	
1	08.00-09.50	M W F	ALLYN 11 KINGTON LOUIS BRENT
2	12.00-01.50	M W F	ALLYN 11 KINGTON LOUIS BRENT
3	02.00-03.50	M W F	ALLYN 11 HU MARY LEE

341	DRAWING	02.0 TO 12.0 CR		
1	08.00-09.50	M W F	ALLYN 202	CNKEN
2	04.00-05.50	M W F	ALLYN 202	LITTLEFIELD
358	PRINTS	02.0 TO 12.0 CR		
1	02.00-03.50	M W F	ALLYN 210	KOLDEN LARRY D
365	ART EDUC SECON SCH	04.0 CR		
1	10.00-11.50	M W F	PULL I 105	GREENFIELD SYLVIA
385	WEAVING	02.0 TO 12.0 CR		
1	02.00-04.50	T TH	0702 101	GINSBERG RUTH L
2	06.00-08.50 PM	T TH	0702 101	GINSBERG RUTH L
393	SCULPTURE	04.0 TO 12.0 CR		
	PREREQ ART 200-12 HRS			
1	08.00-10.50	T TH	0549 101	SULLIVAN MILTON F
406	STUDIO IN PAINTING	02.0 TO 12.0 CR		
1	08.00-09.50	M W F	0549 101	BERNSTEIN LAWRENCE
416	STUDIO IN PRINTS	02.0 TO 12.0 CR		
1	10.00-11.50	M W F	ALLYN 210	KOLDEN LARRY D
426	STUDIO IN POTTERY	02.0 TO 12.0 CR		
1	11.00-01.50	T TH	ALLYN 5	VERGETTE NICHOLAS
436	STUDIO METAL CONSTR	02.0 TO 12.0 CR		
1	10.00-11.50	M W F	ALLYN 11	KINGTON LOUIS BREN
442	DRAWING	02.0 TO 12.0 CR		
	PREREQ ART 341-12 HRS			
1	08.00-10.50	T TH	ALLYN 202	PAULSON
446	STUDIO IN WEAVING	02.0 TO 12.0 CR		
1	11.00-01.50	T TH	0702 101	GINSBERG RUTH L
466	STUDIO IN ART ED	02.0 TO 12.0 CR		
1	12.00	M W F	PULL I 105	ABRAHAMSON ROY E
482B	ART HIST SEM-MED	03.0 CR		
1	TO BE ARRANGED			CHAITKIN
483B	RES ART HIST-MED	03.0 CR		
1	TO BE ARRANGED			CHAITKIN
493	ADVANCED SCULPTURE	02.0 TO 12.0 CR		
	PREREQ ART 393-12 HRS			
1	02.00-04.50	T TH	0549 101	SULLIVAN MILTON F
502	SEM IN SCULPTURE	02.0 TO 12.0 CR		
	PREREQ CONSENT OF INSTRUCTOR			
1	TO BE ARRANGED			SULLIVAN MILTON F
506	RESEARCH PAINTING	02.0 TO 12.0 CR		
	PREREQ CONSENT OF INSTRUCTOR			
1	08.00-09.50	M W F	0549 1010	BERNSTEIN LAWRENCE
516	RESEARCH IN PRINTS	02.0 TO 12.0 CR		
	PREREQ CONSENT OF INSTRUCTOR			
1	10.00-11.50	M W F	ALLYN 210	KOLDEN LARRY D
526	RESEARCH POTTERY	02.0 TO 12.0 CR		
1	11.00-01.50	T TH	ALLYN 5	VERGETTE NICHOLAS
536	RESEARCH METAL CONS	02.0 TO 12.0 CR		
1	10.00-11.50	M W F	ALLYN 11	KINGTON LOUIS BREN
542	RESEARCH IN DRAWING	02.0 TO 12.0 CR		
	PREREQ 12 HRS OF ART 300			
1	08.00-10.50	T TH	ALLYN 202	PAULSON
546	RESEARCH IN WEAVING	02.0 TO 12.0 CR		
1	11.00-01.50	T TH	0702 101	GINSBERG RUTH L
560	SEMINAR ART EDUC	02.0 TO 12.0 CR		
1	TO BE ARRANGED			ABRAHAMSON ROY E
571	READ ART HISTORY	02.0 TO 05.0 CR		
	PREREQ GRAD STANDING + CONSENT OF INSTR			
1	TO BE ARRANGED			KURTZ BRUCE D
573	PROB-ART HIST	03.0 TO 12.0 CR		
1	TO BE ARRANGED			KURTZ BRUCE D
599	THESIS	05.0 TO 09.0 CR		
1	TO BE ARRANGED			

Biology (BIOL)

307	ENVIRONMENTAL BIOL	04.0 CR		
	PREREQ GSA 201B CR 210B OR ADVANCED STANDING			
1	01.00	MTWTH	LAWSON 221	
308	ORGANISMIC BIOLOGY	04.0 CR		
	PREREQ GSA 201B CR 210B OR ADVANCED STANDING			
1	09.00	MTWTH	LAWSON 221	

Botany (BOT)

300	MORPH NON-VAS PLANT			04.0 CR		
	PREREQ	GSA 201B				
1	09.00	M W F	LS I	323	TINDALL DONALD R	
	08.00-09.50	T	LS I	307	TINDALL DONALD R	
2	09.00	M W F	LS I	323	TINDALL DONALD R	
	08.00-09.50	TH	LS I	307	TINDALL DONALD R	
301	MORPH VAS PLANTS			04.0 CR		
	PREREQ	GSA 201B				
1	01.00	T TH	LS I	323	MATTEN LAWRENCE C	
	01.00-02.50	W F	LS I	307		
2	01.00	T TH	LS I	323	MATTEN LAWRENCE C	
	03.00-04.50	W F	LS I	307		
320	PLANT PHYSIOLOGY			05.0 CR		
	PREREQ	GSA 201B, CHEM 350 OR MINOR IN CHEM				
1	08.00	M W F	LS I	323	SCHMID WALTER E	
	08.00-09.50	T TH	LS I	311		
2	08.00	M W F	LS I	323	SCHMID WALTER E	
	10.00-11.50	T TH	LS I	311		
3	08.00	M W F	LS I	323	SCHMID WALTER E	
	01.00-02.50	T TH	LS I	311		
341	AUTECOLOGY			03.0 CR		
1	11.00	M TH	LS I	323	ANDERSON ROGER	
	10.00-11.50	W	LS I	307	ANDERSON ROGER	
390	READINGS - BOTANY			02.0 TO 04.0 CR		
	PREREQ	BOT MAJOR AND CONSENT OF INSTR				
1	TO BE ARRANGED					
391	SPEC PROB IN BOTANY			02.0 TO 05.0 CR		
	PREREQ	BOT MAJOR AND CONSENT OF DEPT				
1	TO BE ARRANGED				MOHLENBROCK ROBERT	
392	HONORS IN BOTANY			03.0 TO 21.0 CR		
	PREREQ	CONSENT OF DEPARTMENT				
1	TO BE ARRANGED					
406	INDUSTRIAL MYCLOGY			05.0 CR		
	PREREQ	BOT 405 CR CONSENT OF INSTR				
1	10.00	M W F	LS I	323	GRAY WILLIAM D	
	10.00-11.50	T TH	LS I	307	GRAY WILLIAM D	
445	ECOL FORESTS AR LDS			05.0 CR		
1	12.00	MT TH	LS I	323	ASHBY, WILLIAM C	
	LAB TO BE ARRANGED SAT	LS 307				
450	PLANT GEOGRAPHY			03.0 CR		
	PREREQ	CONSENT OF INSTR				
1	03.00	MT TH	LS I	323	UGENT DONALD	
456	PLANT PATHOLOGY			05.0 CR		
	PREREQ	CONSENT OF INSTR				
1	01.00	M W F	LS I	323	PAPPELIS ARISTOTEL J	
	01.00-02.50	T TH	LS I	307	PAPPELIS ARISTOTEL J	
2	01.00	M W F	LS I	323	PAPPELIS ARISTOTEL J	
	03.00-04.50	T TH	LS I	307		
470	TEACH H S BIOL /P/			04.0 CR		
	PREREQ	BOT OR ZCC MAJORS ONLY				
1	08.00-09.50	M W F	LS I	307	VERDUIN, JACOB	
503B	ADV ANGIOSPERM TAX			05.0 CR		
	PREREQ	CONSENT OF INSTR				
1	01.00-02.50	M W F	COMM	9	MOHLENBROCK	
	ADDITIONAL HRS TO BE ARRANGED SAT	COMM 9				
522	ADV MICROTECHNIQUE			05.0 CR		
	PREREQ	CONSENT OF DEPT				
1	01.00	M W F	0461	102	CLAH LESLIE	
	01.00-02.50	T TH	0461	102	CLAH LESLIE	
533	GRO DEV IN PLANTS			03.0 TO 04.0 CR		
	PREREQ	BOT 320 OR CONSENT OF INSTR				
1	02.00	M W F	AG	170	COORTS, GERALD	
570	READINGS - BOTANY			02.0 TO 05.0 CR		
1	TO BE ARRANGED					
580	SEMINAR			01.0 TO 04.0 CR		
	PREREQ	UNDERGRAD MAJOR OR MINOR IN BOT OR DEPT CONSENT				
1	TO BE ARRANGED				MOHLENBROCK ROBERT	
2	04.00	W	LS I	323	UGENT DONALD	

581	ADV SYSTEMATICS			04.0 CR	
	PREREQ	CONSENT OF INSTR			
1	01.00-02.50	T TH	LS I	120	BLACKWELDER R E
590	INTRO TO RESEARCH		02.0 TO 04.0 CR		
1	TO BE ARRANGED				MOHLENBROCK ROBERT
2	TO BE ARRANGED				
3	TO BE ARRANGED				
591	RESEARCH		03.0 TO 09.0 CR		
	PREREQ	CONSENT OF DEPT			
1	TO BE ARRANGED				
599	THESIS		03.0 TO 09.0 CR		
1	TO BE ARRANGED				
600	DISSERTATION		01.0 TO 36.0 CR		
1	TO BE ARRANGED				

Business Administration (B A)

501	QUANT DECISIONS			04.0 CR	
1	01.00-02.50	T TH	CL	24	
	ENRL IN MBA PROGRAM	CRCONS OF INSTR			
502	BUSINESS + SOCIETY			04.0 CR	
1	08.00-09.50	M F	CL	24	
	ENRL IN MBA PROGRAM	CRCONS OF INSTR			
510	MGR ACCT + CONTROL			04.0 CR	
1	03.00-04.50	T F	CL	24	
	ENRL IN MBA PROGRAM	CRCONS OF INSTR			
519	SEMINAR IN ACCT			04.0 CR	
1	10.00-11.50	M TH	CL	25	
	ENRL IN MBA PROGRAM	CRCONS OF INSTR			
530	FINANCIAL MGT			04.0 CR	
1	08.00-09.50	T TH	CL	24	
	ENRL IN MBA PROGRAM	CRCONS OF INSTR			
543	PERSONNEL MGT			04.0 CR	
	PREREQ	ENROLLMENT IN MBA PROGRAM OR CONSENT OF INSTR			
1	05.45-07.25	M W	CL	24	
	ENRL IN MBA PROGRAM	CRCONS OF INSTR			
550	MARKETING MGT			04.0 CR	
	PREREQ	ENROLLMENT IN MBA PROGRAM OR CONSENT OF INSTR			
1	01.00-02.50	M W	CL	24	
	ENRL IN MBA PROGRAM	CRCONS OF INSTR			
552	ADV MKTG RES + ANAL			04.0 CR	
	PREREQ	ENROLLMENT IN MBA PROGRAM OR CONSENT OF INSTR			
1	03.00-04.50	M W	CL	25	
590	INDEPENDENT STUDY			04.0 CR	
	PREREQ	ENROLLMENT IN MBA PROGRAM OR CONSENT OF INSTR			
1	TO BE ARRANGED				
599	THESIS		04.0 TO 08.0 CR		
	PREREQ	ENROLLMENT IN MBA PROGRAM OR CONSENT OF INSTR			
1	TO BE ARRANGED				

Chemistry (CHEM)

110	INORGANIC CHEMISTRY			04.0 CR	
1	09.00	M W F	PARK	124	BROWN GEORGE E
	08.00-10.50	T	PHY SC	108	BROWN GEORGE E
	08.00	W	PARK	204	BROWN GEORGE F
2	09.00	M W F	PARK	124	BROWN GEORGE E
	08.00-10.50	TH	PHY SC	108	BROWN GEORGE E
	08.00	W	PARK	204	BROWN GEORGE F
3	09.00	M W F	PARK	124	BROWN GEORGE E
	08.00-10.50	T	PHY SC	109	BROWN GEORGE E
	08.00	W	PARK	204	BROWN GEORGE E
4	09.00	M W F	PARK	124	BROWN GEORGE E
	08.00-10.50	TH	PHY SC	109	BROWN GEORGE E
	08.00	F	PARK	204	BROWN GEORGE E
5	09.00	M W F	PARK	124	BROWN GEORGE E
	08.00-10.50	S	PHY SC	108	BROWN GEORGE E
	08.00	F	PARK	204	BROWN GEORGE E

6	09.00	M W F	PARK	124	BROWN	GEORGE E
	08.00-10.50	S	PHY SC	109	BROWN	GEORGE E
	08.00	F	PARK	204	BROWN	GEORGE E
7	09.00	M W F	PARK	124		
	10.00-12.50	M	PHY SC	109	BROWN	GEORGE E
	09.00	TH	PARK	204	BROWN	GEORGE E
8	09.00	M W F	PARK	124	BROWN	GEORGE E
	10.00-12.50	W	PHY SC	109	BROWN	GEORGE E
	09.00	TH	PARK	204	BROWN	GEORGE E
9	09.00	M W F	PARK	124	BROWN	GEORGE E
	10.00-12.50	F	PHY SC	109	BROWN	GEORGE E
	09.00	TH	PARK	204	BROWN	GEORGE E
10	09.00	M W F	PARK	124	BROWN	GEORGE E
	06.00-08.50 PM	W	PHY SC	109	BROWN	GEORGE E
	09.00	TH	PARK	204	BROWN	GEORGE E
121A	GEN CHEM-QUAL ANAL		05.0 CR			
	PREREQ	115 OR 1	YR HIGH SCHOOL CHEM			
1	11.00	M W F	PARK	124		
	11.00-12.50	T TH	PHY SC	102		
	12.00	W	PHY SC	116		
2	11.00	M W F	PARK	124		
	11.00-12.50	T TH	PHY SC	104		
	12.00	W	PHY SC	116		
3	11.00	M W F	PARK	124		
	11.00-12.50	T TH	PHY SC	106		
	12.00	W	PHY SC	116		
4	11.00	M W F	PARK	124		
	11.00-12.50	T TH	PHY SC	107		
	12.00	M	PHY SC	116		
5	11.00	M W F	PARK	124		
	11.00-12.50	T TH	PHY SC	108		
	12.00	M W	PHY SC	116		
6	03.00	M W F	PARK	124		
	02.00-03.50	T TH	PHY SC	102		
	02.00	M	PHY SC	116		
7	03.00	M W F	PARK	124		
	02.00-03.50	T TH	PHY SC	104		
	02.00	M	PHY SC	116		
8	03.00	M W F	PARK	124		
	02.00-03.50	T TH	PHY SC	106		
	02.00	M	PHY SC	116		
9	03.00	M W F	PARK	124		
	02.00-03.50	T TH	PHY SC	107		
	02.00	W	PHY SC	116		
10	03.00	M W F	PARK	124		
	02.00-03.50	T TH	PHY SC	108		
	02.00	W	PHY SC	116		
11	06.00-07.25 PM	M W	PARK	124		
	07.35-08.25 PM	M	PHY SC	116		
	06.00-07.50 PM	T TH	PHY SC	102		
12	06.00-07.25 PM	M W	PARK	124		
	07.35-08.25 PM	M	PHY SC	116		
	06.00-07.50 PM	T TH	PHY SC	104		
13	06.00-07.25 PM	M W	PARK	124		
	07.35-08.25 PM	M	PHY SC	116		
	06.00-07.50 PM	T TH	PHY SC	106		
14	06.00-07.25 PM	M W	PARK	124		
	07.35-08.25 PM	W	PHY SC	116		
	06.00-07.50 PM	T TH	PHY SC	107		
15	06.00-07.25 PM	M W	PARK	124		
	07.35-08.25 PM	W	PHY SC	116		
	06.00-07.50 PM	T TH	PHY SC	108		
121B	GEN CHEM-QUAL ANAL		05.0 CR			
	PREREQ	121A				
1	08.00	T TH	PARK	124		
	09.00	T	PHY SC	116		
	08.00-10.50	W F	PHY SC	102		
2	08.00	T TH	PARK	124		
	09.00	T	PHY SC	116		
	08.00-10.50	W F	PHY SC	104		
3	08.00	T TH	PARK	124		
	09.00	TH	PHY SC	116		
	08.00-10.50	W F	PHY SC	106		

4	08.00	T TH	PARK	124		
	09.00	TH	PHY SC	116		
	08.00-10.50	W F	PHY SC	107		
5	11.00	T TH	PARK	124		
	12.00	T	PHY SC	116		
	11.00-01.50	M W	PHY SC	104		
6	11.00	T TH	PARK	124		
	12.00	T	PHY SC	116		
	11.00-01.50	M W	PHY SC	106		
7	11.00	T TH	PARK	124		
	12.00	TH	PHY SC	116		
	11.00-01.50	M W	PHY SC	107		
8	11.00	T TH	PARK	124		
	12.00	TH	PHY SC	116		
	11.00-01.50	M W	PHY SC	102		
9	03.00	T TH	PARK	124		
	02.00	T	PHY SC	116		
	02.00-04.50	M W	PHY SC	102		
10	03.00	T TH	PARK	124		
	02.00	T	PHY SC	116		
	02.00-04.50	M W	PHY SC	104		
11	03.00	T TH	PARK	124		
	02.00	TH	PHY SC	116		
	02.00-04.50	M W	PHY SC	106		
12	03.00	T TH	PARK	124		
	02.00	TH	PHY SC	116		
	02.00-04.50	M W	PHY SC	107		
305B	ORG CHEM-PRE PROF			05.0	CR	
	PREREQ CHEM 305A					
1	12.00	M WTH	LS I	133	HADLEY ELBERT H	
	12.00-02.50	T F	PHY SC	205	HADLEY ELBERT H	
	01.00	M	PHY SC	218		
2	12.00	M WTH	LS I	133	HADLEY ELBERT H	
	01.00-03.50	M TH	PHY SC	205	HADLEY ELBERT H	
	01.00	W	PHY SC	218		
3	12.00	M WTH	LS I	133	HADLEY ELBERT H	
	09.00-11.50	M W	PHY SC	205	HADLEY ELBERT H	
	12.00	F	PHY SC	218		
4	12.00	M WTH	LS I	133	HADLEY ELBERT H	
	09.00-11.50	T TH	PHY SC	205	HADLEY ELBERT H	
	12.00	F	PHY SC	116		
5	12.00	M WTH	LS I	133		
	06.00-08.50 PM	T TH	PHY SC	205	HADLEY ELBERT H	
	12.00	T	PHY SC	218		
341B	ORGANIC CHEMISTRY			05.0	CR	
	PREREQ CHEM 341A					
1	08.00	M W F	AG	166		
	08.00-10.50	T TH	PHY SC	203		
	09.00	W	PHY SC	118		
2	08.00	M W F	AG	166		
	09.00-11.50	M F	PHY SC	203		
	08.00	T	PHY SC	116		
3	08.00	M W F	AG	166		
	09.00-11.50	W S	PHY SC	203		
	08.00	TH	PHY SC	116		
4	08.00	M W F	AG	166		
	01.00-03.50	T TH	PHY SC	203		
	08.00	T	PHY SC	218		
375	UNDERGRAD SEMINAR			00.0 TO 02.0	CR	
	PREREQ FOR JUNIORS + SENIORS WITH					
	CONCENTRATION IN CHEM					
1	TO BE ARRANGED					
412	INORG PREPARATIONS			03.0	CR	
	PREREQ CHEM 235, 305B, OR 341C					
1	08.00	T	PHY SC	118		
	01.00-03.50	W F	PHY SC	304		
432A	INST ANAL MEASMTS			04.0	CR	
	PREREQ CHEM 461B (MAY BE TAKEN					
	CONCURRENTLY)					
1	06.00-07.35 PM	M W	PHY SC	116		
	01.00-03.50	M W	PHY SC	408		
2	06.00-07.25 PM	M W	PHY SC	116		
	02.00-04.50	T TH	PHY SC	408		

3	06.00-07.25 PM	M W	PHY SC	116	
	06.00-08.50 PM	T TH	PHY SC	408	
451B	BIOCHEMISTRY			03.0 CR	
	PREREQ CHEM 235, 305B OR 341C-MUST BE TAKEN IN SEQUENCE				
1	08.00	M W F	PHY SC	218	
455A	BIOCHEMISTRY LAB			04.0 CR	
	PREREQ 451A				
1	08.00		TH	PHY SC	218
	LAB TO BE ARRANGED				
461B	PHYSICAL CHEMISTRY			04.0 CR	
	PREREQ CHEM 461A				
1	11.00	M W F	PHY SC	116	
	11.00-01.50		TH	PHY SC	105
2	11.00	M W F	PHY SC	116	
	08.00-10.50		TH	PHY SC	105
3	11.00	M W F	PHY SC	116	
	09.00-11.50		T	PHY SC	105
472B	X-RAY CRYSTALLOGRAPHY			04.0 CR	
	PREREQ CHEM 461B + 472A				
1	04.00	M W	TECH B	141	
	03.00-04.50		F	TECH B	126
	CROSSLISTED WITH APPLIED SCIENCE 401B				
496A	CHEM PROB ANALY			01.0 TO 12.0 CR	
	PREREQ CONSENT OF INSTRUCTOR AND DEPT CHAIRMAN				
1	TO BE ARRANGED				
496B	CHEM PROB BIOCHEM			01.0 TO 12.0 CR	
	PREREQ CONSENT OF INSTRUCTOR AND DEPT CHAIRMAN				
1	TO BE ARRANGED				
496C	CHEM PROB INORGANIC			01.0 TO 12.0 CR	
	PREREQ CONSENT OF INSTRUCTOR AND DEPT CHAIRMAN				
1	TO BE ARRANGED				
496D	CHEM PROB ORGANIC			01.0 TO 12.0 CR	
	PREREQ CONSENT OF INSTRUCTOR AND DEPT CHAIRMAN				
1	TO BE ARRANGED				
496E	CHEM PROB PHYSICAL			01.0 TO 12.0 CR	
	PREREQ CONSENT OF INSTRUCTOR AND DEPT CHAIRMAN				
1	TO BE ARRANGED				
511A	ADV INORGANIC CHEM			03.0 CR	
	PREREQ CHEM 461C				
1	02.00	M W F	PHY SC	410	FINCKLEY CONRAD C
519	ADV TOPICS-INORG			02.0 TO 30.0 CR	
	PREREQ CHEM 511A AND CONSENT OF INS				
1	10.00	M W F	PHY SC	116	TRIPLE RUSSELL F
531	THEORY QUANT ANAL			03.0 CR	
	PREREQ CHEM 433 CR SATISFACTORY FIELD EXAM				
1	01.00	M W F	PHY SC	410	
541	ADV ORG CHEM			03.0 CR	
	PREREQ CHEM 444 CR SATISFACTORY FIELD EXAM				
1	09.00	M W F	TECH A	120	SLOCUM DONALD
549	ADV TOPICS-ORGANIC			02.0 TO 30.0 CR	
	PREREQ CHEM 543				
1	09.00	M W F	PHY SC	218	
551	NUC ACID-PROT BIOSY			03.0 CR	
	PREREQ CHEM 451C				
1	10.00	M W F	TECH A	120	HADLER
562A	QUANTUM CHEMISTRY			03.0 CR	
	PREREQ CHEM 464 CR CONSENT OF INSTRUCTOR				
1	03.00	M W F	PHY SC	116	
569	ADV TOPICS-PHYSICAL			02.0 TO 30.0 CR	
	PREREQ CHEM 561				
1	11.00	M W F	TECH A	120	
594A	SP READ-CHEM ANALY			02.0 TO 15.0 CR	

PREREQ 24 HRS OF 500 CHEM AND CONSENT
 OF DIV
 1 TO BE ARRANGED
 594B SP READ-CHEM BIO 02.0 TO 15.0 CR
 PREREQ 24 HRS OF 500 CHEM AND CONSENT
 OF DIV
 1 TO BE ARRANGED
 594C SP READ-CHEM INORG 02.0 TO 15.0 CR
 PREREQ 24 HRS OF 500 CHEM AND CONSENT
 OF DIV
 1 TO BE ARRANGED
 594D SP READ-CHEM ORGAN 02.0 TO 15.0 CR
 PREREQ 24 HRS OF 500 CHEM AND CONSENT
 OF DIV
 1 TO BE ARRANGED
 594E SP READ-CHEM PHYS 02.0 TO 15.0 CR
 PREREQ 24 HRS OF 500 CHEM AND CONSENT
 OF DIV
 1 TO BE ARRANGED
 595A ADV SEM-CHEM ANALY 00.0 TO 09.0 CR
 PREREQ 24 HRS OF 500 CHEM AND CONSENT
 OF DIV
 1 04.00-05.50 M PHY SC 218
 595B ADV SEM-CHEM BIO 00.0 TO 09.0 CR
 PREREQ 24 HRS OF 500 CHEM AND CONSENT
 OF DIV
 1 04.00-05.50 I PHY SC 116
 595C ADV SEM-CHEM INORG 00.0 TO 09.0 CR
 PREREQ 24 HRS OF 500 CHEM AND CONSENT
 OF DIV
 1 04.00-05.50 W PHY SC 218
 595D ADV SEM-CHEM ORGAN 00.0 TO 09.0 CR
 PREREQ 24 HRS OF 500 CHEM AND CONSENT
 OF DIV
 1 04.00-05.50 F PHY SC 218
 595E ADV SEM-CHEM PHYS 00.0 TO 09.0 CR
 PREREQ 24 HRS OF 500 CHEM AND CONSENT
 OF DIV
 1 04.00-05.50 TH PHY SC 218
 596A ADV CHEM PROB-ANAL 03.0 TO 20.0 CR
 PREREQ CONSENT OF DEPT CHAIRMAN
 1 TO BE ARRANGED
 596B ADV CHEM PROB-BIO 03.0 TO 20.0 CR
 PREREQ CONSENT OF DEPT CHAIRMAN
 1 TO BE ARRANGED
 596C ADV CHEM PROB-INORG 03.0 TO 20.0 CR
 PREREQ CONSENT OF DEPT CHAIRMAN
 1 TO BE ARRANGED
 596D ADV CHEM PROB-ORGAN 03.0 TO 20.0 CR
 PREREQ CONSENT OF DEPT CHAIRMAN
 1 TO BE ARRANGED
 596E ADV CHEM PROB-PHYS 03.0 TO 20.0 CR
 PREREQ CONSENT OF DEPT CHAIRMAN
 1 TO BE ARRANGED
 597A RES + THESIS-ANAL 03.0 TO 40.0 CR
 PREREQ CONSENT OF DEPT CHAIRMAN
 1 TO BE ARRANGED
 597B RES + THESIS-BIO 03.0 TO 40.0 CR
 PREREQ CONSENT OF DEPT CHAIRMAN
 1 TO BE ARRANGED
 597C RES + THESIS-INORG 03.0 TO 40.0 CR
 PREREQ CONSENT OF DEPT CHAIRMAN
 1 TO BE ARRANGED
 597D RES + THESIS-ORGAN 03.0 TO 40.0 CR
 PREREQ CONSENT OF DEPT CHAIRMAN
 1 TO BE ARRANGED
 597E RES + THESIS-PHYS 03.0 TO 40.0 CR
 PREREQ CONSENT OF DEPT CHAIRMAN
 1 TO BE ARRANGED
 598A RES-DOCTOR ANALY 03.0 TO 48.0 CR
 PREREQ M A DEGREE OR EQUIV
 1 TO BE ARRANGED

598B RES-DOCTOR BIOCHEM 03.0 TO 48.0 CR
 PREREQ M A DEGREE OR EQUIV
 1 TO BE ARRANGED

598C RES-DOCTOR INCRGAN 03.0 TO 48.0 CR
 PREREQ M A DEGREE OR EQUIV
 1 TO BE ARRANGED

598D RES-DOCTOR ORGANIC 03.0 TO 48.0 CR
 PREREQ M A DEGREE OR EQUIV
 1 TO BE ARRANGED

598E RES-DOCTOR PHYS 03.0 TO 48.0 CR
 PREREQ M A DEGREE OR EQUIV
 1 TO BE ARRANGED

600A DISSERT ANALYTICAL 03.0 TO 48.0 CR
 PREREQ ADMISSION TO PH D CANDIDACY
 1 TO BE ARRANGED

600B DISSERT BIOCHEM 03.0 TO 48.0 CR
 PREREQ ADMISSION TO PH D CANDIDACY
 1 TO BE ARRANGED

600C DISSERT INORGANIC 03.0 TO 48.0 CR
 PREREQ ADMISSION TO PH D CANDIDACY
 1 TO BE ARRANGED

600D DISSERT ORGANIC 03.0 TO 48.0 CR
 PREREQ ADMISSION TO PH D CANDIDACY
 1 TO BE ARRANGED

600E DISSERT - PHYSICAL 03.0 TO 48.0 CR
 PREREQ ADMISSION TO PH D CANDIDACY
 1 TO BE ARRANGED

Cinema and Photography (C & P)

260B FUND-STILL PHOTO 04.0 CR
 PREREQ P+P 260A

1	09.00-10.50	M W	0834	113	SWAY FRED
	10.00-12.50	T	AG	140	SWAY FRED

STUDTS MUST ENROLL IN 411 CONCURRENTLY

2	09.00-10.50	M W	0834	113	SWAY FRED
	10.00-12.50	TH	AG	140	SWAY FRED
3	09.00-10.50	M W	0834	113	SWAY FRED
	10.00-12.50	F	AG	140	SWAY FRED
4	09.00-10.50	T TH	0834	113	SWAY FRED
	01.00-02.50	T	AG	140	SWAY FRED
5	09.00-10.50	T TH	0834	113	SWAY FRED
	01.00-02.50	W	AG	140	SWAY FRED
6	09.00-10.50	T TH	0834	113	SWAY FRED
	01.00-02.50	F	AG	140	SWAY FRED

STUDTS IN 260B MUST ENROLL IN 411 CONCURRENTLY

309B COMMERCIAL PHOTO 04.0 CR
 PREREQ P+P 309A

1	02.00	MT TH	0834	113	
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341C CINEMATOGRAPHY 03.0 CR
 PREREQ P+P 341B

1	01.00	M TH	0834	113	DAVIS DAVIS
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360B PUBLICATIONS PHOTO 03.0 CR
 PREREQ P+P 360A

1	11.00	M W F	0834	113	HORRELL C WILLIAM
	02.00-03.50	TH	AG	142	HORRELL C WILLIAM

364 PICTURE EDITING 03.0 CR

1	11.00	T TH	0834	113	HORRELL C WILLIAM
	06.00-08.00 PM	M	AG	195	HORRELL C WILLIAM

402 HIST OF STILL PHOTO 03.0 CR

1	04.00	MT TH	0834	113	HORRELL C WILLIAM
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* OPEN ONLY TO STUDENTS IN 260B

411 WKSHOP STILL PHOTO 04.0 CR
 PREREQ CONSENT CF DEPT

2	11.00-12.50	T TH	LAWSON	131	
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412 WKSHOP CINEMA PROD 01.0 TO 06.0 CR
 PREREQ CONSENT CF DEPT

1	TO BE ARRANGED				PAINE FRANK R
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431 PROB STILL PHOTO CI 01.0 TO 12.0 CR
 PREREQ BY PERMISSION

1	TO BE ARRANGED				MERCER JOHN
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Clothing and Textiles (C & T)

127A	CLOTHING SELECTION			02.0	CR	
1	09.00	T TH	H EC	140B	RIDLEY	
127B	CLOTHING CONSTRUCT			02.0	CR	
1	08.00-09.50	W F	H EC	303		
2	10.00-11.50	T TH	H EC	310	RIDLEY SAMANTHA SUE	
3	10.00-11.50	M W	H EC	310		
4	03.00-04.50	T TH	H EC	303		
131	APPLIED DESIGN			03.0	CR	
1	12.00	M W	H EC	140B		
	12.00-01.50	F	H EC	302		
2	12.00	M W	H EC	140B		
	12.00-01.50	T	H EC	302		
3	12.00	M W	H EC	140B		
	12.00-01.50	TH	H EC	302		
4	12.00	M W	H EC	140B		
	03.00-04.50	W	H EC	302		
231	APPLIED DESIGN			03.0	CR	
	PREREQ	131, EQUIVALENT, OR CONSENT OF CHAIRMAN				
1	08.00	M W	H EC	302		
	08.00-09.50	F	H EC	302		
233	PATT DES + CLO CONS			03.0	CR	
	PREREQ	C+T 127 CR CONSENT OF CHAIRMAN				
1	08.00-09.50	W F	H EC	310	RIDLEY SAMANTHA SUE	
2	01.00-02.50	M W	H EC	310	RIDLEY SAMANTHA SUE	
3	01.00-02.50	T TH	H EC	310	RIDLEY SAMANTHA SUE	
300	DISPLAY			02.0 TO 04.0	CR	
	PREREQ	131, EQUIVALENT, OR CONSENT OF CHAIRMAN				
1	02.00-03.50	T TH	H EC	304		
	LAB HOURS	TBA				
304	TEXTILES			04.0	CR	
	PREREQ	CHEM 110 AND 240				
1	10.00	M W F	H EC	140B	PADGETT	
	10.00-11.50	S	H EC	301		
2	10.00	M W F	H EC	140B	PADGETT	
	09.00-10.50	TH	H EC	301		
3	10.00	M W F	H EC	140B		
	11.00-12.50	T	H EC	301		
327	HM FRN + INTERIORS			03.0	CR	
	PREREQ	131, EQUIVALENT, CONSENT OF CHAIRMAN				
1	01.00	T TH	H EC	140B	STEWART LUCY	
	12.00-01.50	F	H EC	304		
2	01.00	T TH	H EC	140B	STEWART LUCY	
	03.00-04.50	M	H EC	304		
329	FASHION			03.0	CR	
1	09.00	T TH S	H EC	206	BERRY THELMA H	
331	APPLIED DESIGN			03.0	CR	
	PREREQ	231, EQUIVALENT, OR CONSENT OF CHAIRMAN				
1	08.00-09.50	T TH	H EC	302		
381	MOD MOV IN INT DES			04.0	CR	
	PREREQ	C+T 380				
1	04.00	MTWTH	H EC	140B	STEWART LUCY	
391A	ADV INTERIOR DESIGN			05.0	CR	
	PREREQ	C+T 390 OR CONSENT OF CHAIRMAN				
1	10.00	MT TH	H EC	304	STEWART LUCY	
	10.00-11.50	W	H EC	304	STEWART LUCY	
	11.00	TH	H EC	304	STEWART LUCY	
2	10.00	MT TH	H EC	304		
	10.00-11.50	F	H EC	304	GREENE NANCY DONAVE	
	11.00	M	H EC	304	GREENE NANCY DONAVE	
394	PROFESSIONAL PRACT			04.0	CR	
	PREREQ	390 OR CONSENT OF INSTRUCTOR				
1	01.00	TWTHF	H EC	203	STEWART LUCY	
395	SPECIAL PROBLEMS			02.0 TO 04.0	CR	
	PREREQ	CONSENT OF CHAIRMAN				
1	TO BE ARRANGED					

434	HISTORY OF CLOTHING			04.0 CR	
1	01.00	M W	H EC	303	BERRY THELMA H
	01.00-02.50		F	H EC	303 BERRY THELMA H
473	ADVANCED TAILORING			04.0 CR	
	PREREQ	C+T 360 CR	CONSENT OF CHAIRMAN		
1	11.00	M	F	H EC	303 BERRY THELMA H
	10.00-11.50		T TH	H EC	303 BERRY THELMA H
474	ADVANCED TEXTILES			04.0 CR	
	PREREQ	C+T 304 CR	CONSENT OF CHAIRMAN		
1	03.00-04.50	MT TH	H EC	301	PADGETT ROSE
500	RESEARCH METHODS			04.0 CR	
	PREREQ	STATISTICS OR	CONSENT OF		
		CHAIRMAN			
1	TO BE ARRANGED				
583B	COLLEGE TEACH C+T			01.0 CR	
1	TO BE ARRANGED				
599	THESIS			02.0 TO 09.0 CR	
1	TO BE ARRANGED				

Convocation, University (CONV)

000	UNIV CONVOCAATION			00.0 CR	
1	01.00	TH	ARENA	555	

Design (DES)

100	DESIGN FUNDAMENTALS			05.0 TO 15.0 CR	
1	TO BE ARRANGED	=			
	06.30-10.00 PM	W	H EC	140B	
2	TO BE ARRANGED	=			
	06.30-10.00 PM	W	H EC	140B	
3	TO BE ARRANGED	=			
	06.30-10.00 PM	W	H EC	140B	
200	MAT AND BASIC TECH			02.0 TO 06.0 CR	
	PREREQ	DES 100			
1	TO BE ARRANGED	=			
215	BASIC P-S DESIGN			04.0 TO 12.0 CR	
	PREREQ	DES 100			
1	TO BE ARRANGED	=			
275	BASIC VISUAL DESIGN			04.0 TO 12.0 CR	
	PREREQ	DES 100			
1	TO BE ARRANGED	=			
300	MAT AND BASIC TECH			02.0 TO 06.0 CR	
	PREREQ	DES 200			
1	TO BE ARRANGED	=			
345	DESIGN STUDIO			04.0 TO 12.0 CR	
1	TO BE ARRANGED				
2	TO BE ARRANGED	=			
366	P-S DESIGN			05.0 TO 15.0 CR	
	PREREQ	DES 200 215 275			
1	TO BE ARRANGED	=			
2	TO BE ARRANGED	=			
3	TO BE ARRANGED	=			
375	VISUAL DESIGN			05.0 TO 15.0 CR	
	PREREQ	DES 200 215 215			
1	TO BE ARRANGED				
2	TO BE ARRANGED	=			
3	TO BE ARRANGED	=			
390	PRIN OF DESIGN			02.0 CR	
1	07.30-09.30 PM	W	0853	101	PERK HARRY F W
400	MAT + BASIC TECH			00.0 TO 02.0 CR	
1	TO BE ARRANGED	=			
2	TO BE ARRANGED	=			
465F	RES IN P-S DESIGN			05.0 TO 15.0 CR	
	PREREQ	12 HRS OF DES 366 OR ITS EQUIV			
1	TO BE ARRANGED	=			
2	TO BE ARRANGED	=			
465G	RES IN VISUAL DES			05.0 TO 15.0 CR	
	PREREQ	12 HRS OF DES 375 OR ITS EQUIV			
1	TO BE ARRANGED	=			
2	TO BE ARRANGED	=			
490F	STUDIO P-S DESIGN			02.0 TO 12.0 CR	
1	TO BE ARRANGED				

490G	STUDIO-VISUAL DES	02.0 TO 12.0 CR
1	TO BE ARRANGED	
520	EDUC TOOL SYSTEMS	04.0 TO 10.0 CR
1	TO BE ARRANGED	
530	STUD IN IND PROCESS	04.0 TO 12.0 CR
1	TO BE ARRANGED	
535	RES IN PRODUCT DES	04.0 TO 12.0 CR
1	TO BE ARRANGED	
540	STUDIES IN COMM DES	04.0 TO 12.0 CR
1	TO BE ARRANGED	
545	RES IN COMM DESIGN	04.0 TO 12.0 CR
1	TO BE ARRANGED	
550	FIELD STUDY DESIGN	02.0 TO 16.0 CR
1	TO BE ARRANGED	
560	ENVIRONMENT CONTROL	04.0 TO 12.0 CR
1	TO BE ARRANGED	
599	THESIS	03.0 TO 09.0 CR
1	TO BE ARRANGED	

Economics (ECON)

214	ECONOMICS-MACRO	04.0 CR	
1	08.00	TWTHF	LAWSON 221
2	08.00	TWTHF	WHAM 112
3	09.00	T TH	LAWSON 201
	09.00	W F	LAWSON 131
4	12.00	MTW F	LAWSON 201
5	01.00	MT THF	LAWSON 201
6	01.00	MT THF	PARK 204
7	04.00	M WTHF	WHAM 302
8	05.45-07.25	M W	LAWSON 131
215	ECONOMICS-MICRO	04.0 CR	
	PREREQ ECON 214		
1	08.00	MTWTH	PULL 38
2	08.00	MTWTH	WHAM 302
3	10.00	TWTHF	LAWSON 221
4	12.00	TWTHF	AG 214
5	02.00	MT THF	LAWSON 101
6	04.00	MTW F	LAWSON 201
7	04.00	MTW F	CL 109
8	05.45-07.25	M W	LAWSON 101
9	05.45-07.25	T TH	LAWSON 101
301	ECONOMIC READINGS	01.0 TO 06.0 CR	
	PREREQ CONSENT OF INSTR + CHAIRMAN		
1	TO BE ARRANGED		
308	ECON-BUS STAT I	04.0 CR	
	PREREQ GSD 110		
1	12.00	MT THF	CL 24
2	02.00	T TH	AG 116
	02.00	W	CL 109
	02.00	F	CL 24
3	07.35-09.15 PM	M W	CL 24
310	LABOR PROBLEMS	04.0 CR	
	PREREQ ECON 215		
1	01.00	MT THF	WHAM 202
315	MONEY AND BANKING I	04.0 CR	
	PREREQ ECON 215 CR CONSENT OF INSTR		
1	10.00	MT THF	CL 109
2	03.00	TWTHF	CL 109
3	07.35-09.15 PM	T TH	CL 109
330	PUBLIC FINANCE	04.0 CR	
	PREREQ ECON 211A, OR 215, OR CONSENT OF INSTRUCTOR		
1	11.00	M WTHF	WHAM 228
420	RECENT EC HIST U S	04.0 CR	
	PREREQ ECON 215		
1	11.00	MTWTH	AG 216
429	INTERNATIONAL ECON	04.0 CR	
	PREREQ ECON 215 CR CONSENT OF INSTR		
1	10.00	M WTHF	AG 154
431	PUBLIC FINANCE II	03.0 CR	
	PREREQ ECON 330 CR CONSENT OF INSTR		
1	02.00	W	UNIT 1 101
	02.00	T TH	AG 168

436	GOVT AND LABOR	03.0 CR				
	PREREQ ECON 215 CR GSE 211C					
1	03.00 MT F AG	154	KREIDER			
	CROSS-LISTED WITH GOVT 436					
440	INTERMED MICRO THEC	04.0 CR				
	PREREQ ECON 215 CR CONSENT OF INSTR					
1	10.00 TWTHF UNIT 9	101	BRUCKER			
2	03.00 MTWTH WHAM	202	SCULLY			
441	INTERMED MACRO TH	04.0 CR				
	PREREQ ECON 214					
1	11.00 TWTHF PHY SC	118	BUNGER			
2	04.00 MTWTH WHAM	112	PETRC			
467	ECONOMETRICS I	04.0 CR				
	PREREQ CONSENT OF INSTR					
1	03.00 MT THF WHAM	301A	MARKS			
500	ECONOMIC SEMINAR	04.0 TO 08.0 CR				
	PREREQ CONSENT CF INSTR					
1	09.00-10.50 T F CL	25				
2	05.45-07.25 T TH CL	25				
501	ECONOMICS READING	01.0 TO 05.0 CR				
	PREREQ CONSENT CF DEPARTMENT					
1	TO BE ARRANGED					
502	READING IN RES ECON	01.0 TO 06.0 CR				
	PREREQ CONSENT CF FORESTRY DEPT					
1	TO BE ARRANGED					
517	MONETARY TH + POL	04.0 CR				
	PREREQ ECON 315 CR CONSENT OF INSTR					
1	12.00-01.50 T TH CL	25	FOLLENHORST			
520B	EC DEV TH + POLICY	04.0 CR				
	PREREQ ECON 520A					
1	11.00-12.50 T TH PHY SC	410	BADRE			
530	FOR TRADE + FINANCE	04.0 CR				
	PREREQ ECON 429 CR CONSENT OF INSTR					
1	09.00-10.50 M W PULL	39	HAITANI			
541	NATL INCOME THEORY	04.0 CR				
	PREREQ ECON 441 CR CONSENT OF INSTR					
1	03.00 MTWTH PULL	43	PETRC			
543	SEM IN EC POLICY	04.0 CR				
	PREREQ ECON 440 AND 441 OR CONSENT OF INSTR					
1	11.00-12.50 M W WHAM	212	EDELMAN			
566	MATH ECON II	04.0 CR				
	PREREQ ECON 440 CR 465 OR CONSENT OF INSTR					
1	01.00-02.50 M F CL	25	MARTINSEK			
581	ECON OF WELFARE	04.0 CR				
	PREREQ ECON 440 CR CONSENT OF INSTR					
1	06.00-09.30 PM W CL	326				
599	THESIS	01.0 TO 09.0 CR				
1	TO BE ARRANGED					
600	DOCTORAL DISSERTAT	01.0 TO 48.0 CR				
1	TO BE ARRANGED					

Educational Administration and Foundations (EDAF)

355	PHILOSOPHY OF EDUC	04.0 CR				
1	08.00 MTWTH WHAM	205	DENNIS LAWRENCE J			
2	09.00 MTWTH WHAM	206	STONE GEORGE C			
3	10.00 MTWTH WHAM	208	LEAN ARTHUR EDWARD			
4	10.00 M W WHAM	205				
	10.00 T TH WHAM	210				
5	11.00 MTWTH WHAM	203	LEE JERRY ALLAN			
6	12.00 MTWTH WHAM	228	LEE JERRY ALLAN			
7	01.00 MTWTH WHAM	112				
8	02.00 MTWTH WHAM	112	DENNIS LAWRENCE J			
9	03.00 MTWTH WHAM	206				
10	05.45-07.25 M W WHAM	208	DENNIS LAWRENCE J			
11	05.45-07.25 T TH WHAM	112				
431	HIST OF EDUC IN U S	04.0 CR				
1	06.30-09.00 PM TH WHAM	328	VINCCUR SAMUEL M			
432	EDUC + SOC FORCES	04.0 CR				
1	04.30-07.00 W WHAM	321	COUNTS			
500	RESEARCH METHODS	04.0 CR				

1	09.00-11.30		S	WHAM	206	BACH
2	04.00-06.30		TH	WHAM	206	STUCK
3	06.30-09.00 PM	M		WHAM	206	BACH JACOB O
501B	SEMINAR IN EDAD			04.0	CR	
1	06.30-09.00 PM	M		WHAM	319	EWING PARMER LELAND
502	SEMINAR COMP EDUC			04.0	CR	
1	10.00		MTWTH	WHAM	329	LEAN ARTHUR EDWARD
507B	20TH CENTURY + EDUC			04.0	CR	
1	04.30-07.00		TH	WHAM	329	CCUNTS BRACEWELL
508B	INTERDISCIP SEM ED			04.0	CR	
	PREREQ	CONSENT OF INSTRUCTOR				
1	09.00-11.30		S	WHAM	205	
511A	INTERN PRACTICUM			04.0	CR	
	PREREQ	CONSENT OF THE DEPARTMENT ADVISORY COMMITTEE				
1	TO BE ARRANGED					
511B	INTERN PRACTICUM			04.0	CR	
	PREREQ	511A				
1	TO BE ARRANGED					
511C	INTERN PRACTICUM			04.0	CR	
	PREREQ	511B				
1	TO BE ARRANGED					
520A	LEGAL BASIS-AMER ED			04.0	CR	EWING PARMER LELAND
1	06.30-09.00 PM	T		WHAM	328	SASSE EDWARD R
524B	SCHL ADMINISTRATION			04.0	CR	
1	04.30-07.00		W	WHAM	210	STUCK DEAN L
534A	SCHOOL FINANCE			04.0	CR	
1	04.00-06.30		M	WHAM	206	
539	COMMUNITY DEVELOP			04.0	CR	
1	09.00-11.30		S	WHAM	208	HAWLEY
554	CONTRAST PHIL IN ED			04.0	CR	
	PREREQ	355 OR PHIL 355 OR EQUIVALENT				
1	09.00-11.30		S	WHAM	328	LEAN
556A	SCHOOL SUPERVISION			04.0	CR	
1	06.30-09.00 PM		W	WHAM	319	ARMISTEAD FRED J
556B	SEM-ED SUPERVISION			04.0	CR	
	PREREQ	EDAF 556A				
1	06.00-09.00 PM		T	WHAM	203	BRACEWELL GEORGE
560	CURRICULUM			04.0	CR	
1	06.30-09.00 PM		W	WHAM	312	
563	SCHOOL PUBLIC REL			04.0	CR	
	PREREQ	CONSENT OF INSTRUCTOR				
1	05.00-07.30		W	WHAM	203	NEAL
575A	IND RES CURRICULUM			01.0 TO 04.0	CR	
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT				
1	TO BE ARRANGED					
575B	IND RES SUPERVISION			01.0 TO 04.0	CR	
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT				
1	TO BE ARRANGED					
575C	IND RES BUILDINGS			01.0 TO 04.0	CR	
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT				
1	TO BE ARRANGED					
575D	IND RES FINANCE			01.0 TO 04.0	CR	
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT				
1	TO BE ARRANGED					
575E	IND RES SCHOOL LAW			01.0 TO 04.0	CR	
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT				
1	TO BE ARRANGED					
575F	IND RES COMPAR EDUC			01.0 TO 04.0	CR	
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT				
1	TO BE ARRANGED					
575G	IND RES HIST EDUC			01.0 TO 04.0	CR	
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT				
1	TO BE ARRANGED					

575H	IND RES PHIL EDUC	01.0 TO 04.0 CR			
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT			
1	TO BE ARRANGED				
575J	IND RES ADMIN	01.0 TO 04.0 CR			
	PREREQ	500, APPROVAL OF DEPT ADVISOR + CONSENT OF INSTRUCT			
1	TO BE ARRANGED				
576A	READINGS ADM-SUPV	01.0 TO 04.0 CR			
	PREREQ	CONSENT OF DEPT CHAIRMAN AND INSTRUCTOR			
1	TO BE ARRANGED				
576B	READINGS ADM-SUPV	01.0 TO 04.0 CR			
	PREREQ	CONSENT OF DEPT CHAIRMAN AND INSTRUCTOR			
1	TO BE ARRANGED				
576C	READINGS ADM-SUPV	01.0 TO 04.0 CR			
	PREREQ	CONSENT OF DEPT CHAIRMAN AND INSTRUCTOR			
1	TO BE ARRANGED				
589	GEN GRAD SEMINAR	03.0 CR			
	PREREQ	CONSENT OF INSTRUCTOR			
1	04.00-06.30	T	H EC	208	EAMES
591	SEM-SOC + PHIL FOUN	02.0 CR			
	PREREQ	ADVANCED STANDING			
1	10.00-11.50	W	WHAM	301A	MCKENZIE WILLIAM R
592	DOCT SEM CULT FOUND	04.0 CR			
	PREREQ	591			
1	10.00-11.50	T TH	WHAM	301A	MCKENZIE WILLIAM R
596	IND INVESTIGATION	05.0 TO 09.0 CR			
1	TO BE ARRANGED				
600	DISSERTATION	01.0 TO 12.0 CR			
1	TO BE ARRANGED				

Elementary Education (ELED)

100	INTRO TO ELEM EDUC	03.0 CR			
1	09.00	M W F	WHAM	201	BRADFIELD LUTHER E
2	10.00	M W F	WHAM	210	
3	12.00	M W F	WHAM	210	
4	01.00	M W F	WHAM	210	
5	02.00	M W F	WHAM	210	
101	DEVEL RDING-LRN SKL	02.0 CR			
1	08.00	M W F	WHAM	114	
2	08.00	T TH S	WHAM	114	
3	09.00	MTW	WHAM	114	
4	10.00	M W F	WHAM	114	
5	10.00	T TH S	WHAM	114	
6	11.00	T TH S	WHAM	114	
7	11.00	M W F	WHAM	114	
8	12.00	M W F	WHAM	114	
9	01.00	M W F	WHAM	114	
10	02.00	M W F	WHAM	114	
11	03.00	M W F	WHAM	114	
12	04.00	M W F	WHAM	114	
203	UNDRSTD EL SCH CHLD	03.0 CR			
	PREREQ	GSB 201C			
1	11.00	T TH	WHAM	205	LEE J MURRAY
	SECT 1 RESTRICTED-SEE FOOTNOTE BELOW				
2	02.00	T TH	WHAM	210	
3	03.00	T TH	WHAM	208	LEE J MURRAY
309	KIND-PRIM SOC STUD	03.0 CR			
	PREREQ	316			
1	01.00	MTWTH	WHAM	203	ZIMNY BILLIE
2	02.00	MTWTH	WHAM	303	ZIMNY
314	ELEM SCHOOL METHODS	04.0 CR			
	PREREQ	GUID 305			
1	08.00	MTWTH	WHAM	206	CARTER CLEO D
2	09.00	MTWTH	WHAM	203	
	SECT 2 RESTRICTED SEE NCTE BELOW				
3	10.00	MTWTH	WHAM	203	BROD ERNEST E
4	01.00	MTWTH	WHAM	206	RANDOLPH VICTOR
5	02.00	MTWTH	WHAM	206	LEE J MURRAY

316	KINDER PRIMARY METH	04.0 CR			
	PREREQ GUID 305				
1	09.00 M W	WHAM 303	BAKER REBECCA E		
	09.00 T TH	WHAM 201			
337	READING IN ELEM SCH	04.0 CR			
	PREREQ 314				
1	09.00 MTWTH	WHAM 210	RAGSCALE		
2	10.00 MTWTH	WHAM 206	RANDCLPH VICTOR		
3	10.00 MTWTH	WHAM 228	HILL		
4	11.00 MTWTH	WHAM 210	RAGSCALE		
5	02.00 MTWTH	WHAM 203	BROD ERNEST E		
6	03.00 MTWTH	WHAM 203	BROD		
	ELED 337 IS RESTRICTED TO ELED MAJORS				
350	KIND PRI STUD TCH	04.0 TO 16.0 CR			
1	TO BE ARRANGED				
351	EL STUDENT TCH	04.0 TO 16.0 CR			
1	TO BE ARRANGED				
	GENERAL				
2	TO BE ARRANGED				
	ART				
3	TO BE ARRANGED				
	EMH				
4	TO BE ARRANGED				
	MUSIC				
5	TO BE ARRANGED				
	PE				
6	TO BE ARRANGED				
	PH				
7	TO BE ARRANGED				
	SP C				
8	TO BE ARRANGED				
	SP ED				
375	READINGS IN EL ED	02.0 TO 03.0 CR			
1	TO BE ARRANGED		SLOAN		
411	SEM - INSTRUCTION	04.0 CR			
1	TO BE ARRANGED		HEINZ		
	RESTRICTED-SEE FOOTNOTE BELOW				
413	CHILDRENS LIT	04.0 CR			
	PREREQ GUID 305				
1	08.00 MTWTH	WHAM 210			
2	09.00 MTWTH	WHAM 208			
3	11.00 MTWTH	WHAM 206			
415	IMPR ARITH ELEM SCH	04.0 CR			
	PREREQ MATH 210 OR CONSENT OF INSTRUCTOR				
1	01.00 M W	WHAM 223	BEATTIE		
	01.00 T TH	WHAM 208			
2	06.30-09.00 PM W	WHAM 206	BEATTIE		
431	ED FOR DISADV CHILD	02.0 TO 04.0 CR			
	PREREQ 337				
1	TO BE ARRANGED		SLOAN		
	SEE FOOTNOTE BELOW				
437	PROB IN READING	04.0 CR			
	PREREQ SENIOR STANDING, 337, NOT OPEN TO ONES HAVING HAD 505				
1	06.30-09.00 PM M	WHAM 210	RAGSCALE		
442	TEACH EL SCH SCI	04.0 CR			
1	10.00 TWTHF	PULL 304	NEWPORT JOHN FRANK		
2	01.00 MTWTH	PULL 304	HUNGERFORD HAROLD R		
3	06.30-09.00 PM TH	PULL 304	HUNGERFORD HAROLD R		
445	PAR INVOLVE IN EDUC	04.0 CR			
	PREREQ STUDENT TEACHING OR CONSENT OF INSTRUCTOR				
1	06.30-09.00 PM M	WHAM 303	BAKER		
507	READINGS IN READING	02.0 TO 04.0 CR			
	PREREQ 505 AND CONSENT OF INSTRUCTOR				
1	TO BE ARRANGED		HILL MARGARET		
509	PRACTICUM IN READ	04.0 TO 08.0 CR			
	PREREQ 521A, B, AND C, + CONSENT OF INSTRUCTOR				
1	TO BE ARRANGED		FISHCO DANIEL T		
510	PROBLEMS IN READING	04.0 TO 08.0 CR			

1	06.30-09.00 PM	TH	WHAM	144	FISHCC
515	PROB ARITH ELEM SCH			04.0 CR	
	PREREQ 415 OR CCNSENT CF INSTRUCTOR				
1	06.30-09.00 PM	T	WHAM	208	BEATTIE
516	INTERN IN READING			08.0 TO 12.0 CR	
	PREREQ 521A,B, AND C AND CCNSENT OF I				
	NSTRUCTOR				
1	TO BE ARRANGED				HILL
519	READINGS-ELEM MATH			02.0 TO 04.0 CR	
	PREREQ 415, 515				
1	TO BE ARRANGED				BEATTIE + SLOAN
520	DIAG ELEM MATH DISA			04.0 CR	
	PREREQ 515 OR CCNCURRENT REGISTRATION				
1	TO BE ARRANGED				BEATTIE
521B	DIAG-COR READ DISAB			04.0 CR	
	PREREQ 521A				
1	09.00-11.30	S	WHAM	118	FISHCC + HILL
541	PROB EL SCH SCI			04.0 CR	
	PREREQ 441 CR 442 OR CCNSENT OF INSTR				
1	06.30-09.00 PM	W	PULL	304	NEWPORT JOHN FRANK
543	SOC STUD IN EL SCH			04.0 CR	
1	06.30-09.00 PM	T	WHAM	206	RANDCLPH VICTOR
557	ELEM PRINCIPALSHIP			04.0 CR	
1	06.30-09.00 PM	TH	WHAM	208	BRADFIELD LUTHER E
561	ELEM SCH CURR			04.0 CR	
1	06.30-09.00 PM	M	WHAM	203	SLOAN FRED A JR
575A	IND RES CURRICULUM			02.0 TO 04.0 CR	
1	TO BE ARRANGED				SLOAN
575B	IND RES SUPERVISION			02.0 TO 04.0 CR	
1	TO BE ARRANGED				BRADFIELD LUTHER E
575C	IND RES LANG ARTS			02.0 TO 04.0 CR	
1	TO BE ARRANGED				RAGSCALE TED R
575D	IND RES SCIENCE			02.0 TO 04.0 CR	
1	TO BE ARRANGED				NEWPORT JOHN FRANK
575E	IND RES READING			02.0 TO 04.0 CR	
1	TO BE ARRANGED				HILL MARGARET
575F	IND RES SOC STUD			02.0 TO 04.0 CR	
1	TO BE ARRANGED				RANDCLPH VICTOR
575G	IND RES ELEM ED			02.0 TO 04.0 CR	
1	TO BE ARRANGED				SLOAN FRED A JR
575H	IND RES ARITHMETIC			02.0 TO 04.0 CR	
1	TO BE ARRANGED				BEATTIE
575J	IND RES PROB IN K-P			02.0 TO 04.0 CR	
1	TO BE ARRANGED				BAKER REBECCA E
596	INDEPENDENT INVEST			05.0 TO 09.0 CR	
1	TO BE ARRANGED				
599	THESIS			03.0 TO 09.0 CR	
1	TO BE ARRANGED				
600	DISSERTATION			01.0 TO 48.0 CR	
1	TO BE ARRANGED				LEE
2	TO BE ARRANGED				HILL
3	TO BE ARRANGED				SLOAN
4	TO BE ARRANGED				BRADFIELD

203 Sect 1: Block Program : Students should leave Monday free for participation in the school and must take E1 Ed 314 Sect 2, E1 Ed 411, E1 Ed 413 and Guid 305 Sect 1

314 Sect 2: Block Program: Students should leave Monday free for participation in the schools and must take E1 Ed 203 Sect 1, E1 Ed 411, E1 Ed 431, and Guid 305 Sect 1

Engineering (ENGR)

100	ORIENTATION			02.0 CR	
1	04.00	T TH	TECH A	111	
	CROSSLISTED IN SCHCOL OF TECHNOLOGY				
222	DIGITAL COMP PROG			03.0 CR	
	PREREQ MATH 111B				
1	09.00	T TH	TECH A	111	
	12.00	M W	WHAM	24	

2	09.00	T TH	TECH A	111
	12.00	T TH	WHAM	24
3	09.00	T TH	TECH A	111
	04.00	M W	WHAM	24
4	09.00	T TH	TECH A	111
	04.00	T TH	WHAM	24
5	09.00	T TH	TECH A	111
	05.00	M W	WHAM	24
6	09.00	T TH	TECH A	111
	05.00	T TH	WHAM	24
7	09.00	T TH	TECH A	111
	12.00	M W	WHAM	24
8	09.00	T TH	TECH A	111
	12.00	T TH	WHAM	24
9	09.00	T TH	TECH A	111
	05.00	M W	WHAM	24
10	09.00	T TH	TECH A	111
	05.00	T TH	WHAM	24
260A	ANAL MECHANICS			03.0 CR
	PREREQ CONCURRENT ENROLLMENT IN			
	MATH 150B			
1	06.00-07.25 PM	M W	TECH A	222
260B	ANAL MECHANICS			03.0 CR
	PREREQ ENGR 260A			
1	10.00	M W F	TECH A	220
2	03.00	M W F	TECH A	208
300A	THERMODYNAMICS			03.0 CR
	PREREQ ENGR 260C			
1	08.00	M W F	TECH D	131
300B	THERMODYNAMICS			03.0 CR
	PREREQ ENGR 300A			
1	11.00	M W F	TECH A	320
311A	ENGR MATERIALS			03.0 CR
	PREREQ ENGR 260C			
1	01.00	T TH	TECH D	14
	06.00-08.50 PM	T	TECH D	14
311B	ENGR MATERIALS			03.0 CR
	PREREQ ENGR 311A			
1	02.00	T TH	TECH A	208
	06.00-08.50 PM	M	TECH D	14
2	02.00	T TH	TECH A	208
	06.00-08.50 PM	TH	TECH D	14
313A	FLUID MECHANICS			03.0 CR
	PREREQ ENGR 260C			
1	10.00	M W F	TECH D	14A
313B	FLUID MECHANICS			03.0 CR
	PREREQ ENGR 313A			
1	01.00	M W F	TECH D	14A
331A	CIR-FIELD THEORY			04.0 CR
	PREREQ MATH 305A CR CONCURRENT ENROLL			
1	09.00	M W F	TECH A	221
	06.00-08.50 PM	TH	TECH D	104
331B	CIR-FIELD THEORY			04.0 CR
	PREREQ ENGR 331A			
1	09.00	M W F	TECH A	308
	01.00-03.50	M	TECH D	104
2	09.00	M W F	TECH A	308
	06.00-08.50 PM	T	TECH D	104
412A	ENGR PRACTICE			03.0 CR
	PREREQ ENGR 222, MATH 252A			
1	12.00	M W F	TECH A	210
413B	INTER MECH OF FLUID			03.0 CR
	PREREQ 413A			
1	02.00	M W F	TECH D	14A
415B	WATER QUALITY CONTR			03.0 CR
	PREREQ 415A			
1	03.00	M W F	TECH A	221
416B	AIR POLLUT CONTROL			03.0 CR
1	TO BE ARRANGED			
420B	TRANS PHENOMENA			03.0 CR
	PREREQ 420A			
1	TO BE ARRANGED			

423	HYBRID COMPUTATION		03.0 CR
	PREREQ 331B		
1	01.00	M W F	TECH A 208
430	SPECIAL PROBLEMS	02.0 TO 08.0	CR
	PREREQ CONSENT CF INSTR		
1	TO BE ARRANGED		
435B	ELECTRONICS		03.0 CR
	PREREQ 435A		
1	TO BE ARRANGED		
439B	TRANSIENT ANALYSIS		03.0 CR
	PREREQ 439A		
1	TO BE ARRANGED		
440B	STRUCTURES		03.0 CR
	PREREQ ENGR 440A		
1	12.00	M W F	TECH A 208
443B	ENGINEERING DESIGN		03.0 CR
	PREREQ 443A		
1	11.00	T TH	PHY SC 116
	03.00-04.50	T	TECH A 307
2	11.00	T TH	PHY SC 116
	03.00-04.50	TH	TECH A 307
3	11.00	T TH	PHY SC 116
	08.00-09.50	T	TECH A 307
446A	ENERGY CONVERSION		03.0 CR
	PREREQ ENGR 331C + ENGR 300B		
1	TO BE ARRANGED		
480B	ENGR PROCESS DESIGN		03.0 CR
	PREREQ 480A		
1	TO BE ARRANGED		
502B	ADV HEAT TRANSFER		03.0 CR
	PREREQ GRAD STANDING		
1	TO BE ARRANGED		
510B	ELECTROMAG FIELDS		03.0 CR
	PREREQ CONSENT CF INSTR		
1	TO BE ARRANGED		
511B	QUANTUM ELECTRONICS		03.0 CR
	PREREQ CONSENT CF INSTR		
1	TO BE ARRANGED		
512B	CONTINUUM MECHANICS		04.0 CR
	PREREQ ENGR 512A		
1	10.00-11.50	T TH	TECH D 12
514	MECH INVISCID FLUID		03.0 CR
	PREREQ ENGR 413A AND E OR CONSENT OF INSTR		
1	TO BE ARRANGED		
516A	WATER RESOURCES		04.0 CR
1	TO BE ARRANGED		
517B	ANAL-DES OF SYSTEMS		04.0 CR
	PREREQ ENGR 517A		
1	TO BE ARRANGED		
518	INTRO TO TURBULENCE		03.0 CR
	PREREQ ENGR 413A, B		
1	TO BE ARRANGED		
520B	REACTION ENGR		03.0 CR
	PREREQ ENGR 520A		
1	TO BE ARRANGED		
530A	SEPARATION PROCESS		03.0 CR
	PREREQ CONSENT CF INSTR		
1	TO BE ARRANGED		
535A	NETWORK ANAL + SYN		03.0 CR
	PREREQ ENGR 311B		
1	TO BE ARRANGED		
542	THEORY OF PLATES		03.0 CR
	PREREQ MATH 305 CR 407 OR CONSENT OF INSTRUCTOR		
1	TO BE ARRANGED		
570	SPECIAL INVESTIGAT	02.0 TO 06.0	CR
1	TO BE ARRANGED		
580	SEMINAR	01.0 TO 09.0	CR
1	TO BE ARRANGED		
599	THESIS	01.0 TO 09.0	CR
1	TO BE ARRANGED		

Engineering Technology (ET)

100	ORIENTATION			02.0	CR
1	04.00	T TH	TECH A	111	
	CROSSLISTED IN SCHCCL OF TECHNOLOGY				
102A	GRAPHIC COMMUNICAT			03.0	CR
1	11.00	T	TECH A	111	
	08.00-09.50	W F	TECH A	207	
2	11.00	T	TECH A	111	
	08.00-09.50	W F	TECH A	219	
3	11.00	T	TECH A	111	
	08.00-09.50	M TH	TECH A	207	
4	11.00	T	TECH A	111	
	08.00-09.50	M TH	TECH A	219	
102B	GRAPHIC COMMUNICAT			03.0	CR
	PREREQ E T 102A				
1	10.00	W	TECH A	111	
	10.00-11.50	T F	TECH A	207	
2	10.00	W	TECH A	111	
	10.00-11.50	T F	TECH A	219	
3	10.00	W	TECH A	111	
	10.00-11.50	M TH	TECH A	207	
4	10.00	W	TECH A	111	
	10.00-11.50	M TH	TECH A	219	
5	03.00	W	TECH A	111	
	03.00-04.50	T F	TECH A	207	
6	03.00	W	TECH A	111	
	03.00-04.50	T F	TECH A	219	
7	03.00	W	TECH A	111	
	03.00-04.50	M TH	TECH A	207	
8	03.00	W	TECH A	111	
	03.00-04.50	M TH	TECH A	219	
102C	GRAPHIC COMMUNICAT			03.0	CR
	PREREQ E T 102B				
1	02.00	T	TECH A	111	
	01.00-02.50	W F	TECH A	207	
2	02.00	T	TECH A	111	
	01.00-02.50	W F	TECH A	219	
260A	ANALYTIC MECHANICS			03.0	CR
	PREREQ MATH 150B CR CONCURRENT ENROLLMENT				
1	01.00	M W F	TECH D	131	
260B	ANALYTIC MECHANICS			03.0	CR
	PREREQ E T 260A				
1	10.00	M	AG	116	
	10.00	W	TECH A	222	
	10.00	F	TECH A	320	
2	02.00	M W F	TECH D	131	
301A	REF AIR COND			03.0	CR
	PREREQ ENGR 300A				
1	10.00	M W F	TECH A	221	
303B	ELECTRONIC TECH			03.0	CR
	PREREQ E T 303A				
1	09.00	T TH	TECH A	208	
	01.00-03.50	W	TECH D	106	
2	09.00	T TH	TECH A	208	
	06.00-09.00 PM	T	TECH D	106	
304A	ELECTRICAL CIRCUITS			03.0	CR
	PREREQ MATH 252				
1	01.00	T TH	TECH A	208	
	08.00-09.50	F	TECH D	104	
304B	ELECTRICAL CIRCUITS			03.0	CR
	PREREQ E T 304A				
1	10.00	T TH	TECH A	111	
	06.00-08.50 PM	M	TECH D	104	
2	10.00	T TH	TECH A	111	
	02.00-04.50	T	TECH D	104	
3	10.00	T TH	TECH A	111	
	01.00-03.50	W	TECH D	104	
4	11.00	M W	TECH A	111	
	06.00-08.50 PM	W	TECH D	104	
5	11.00	M W	TECH A	111	
	02.00-04.50	TH	TECH D	104	

6	11.00	M W	TECH A	111
	10.00-12.50	TH	TECH D	104
308B	MACHINE DESIGN		03.0	CR
	PREREQ E T 308A			
1	12.00	M W F	TECH A	319
310B	CONST MECHANICS		03.0	CR
	PREREQ E T 310A			
1	10.00	M W F	TECH A	208
311A	ENGR MATERIALS		03.0	CR
	PREREQ E T 260C			
1	09.00	T TH	TECH A	310
	02.00-04.50	T	TECH D	14
2	09.00	T TH	TECH A	310
	02.00-04.50	TH	TECH D	14
311B	ENGR MATERIALS		03.0	CR
	PREREQ E T 311A			
1	08.00	M W	TECH A	111
	09.00-11.50	S	TECH D	14
2	08.00	M W	TECH A	111
	06.00-08.50 PM	W	TECH D	14
313A	EL HEAT POWER		04.0	CR
	PREREQ MATH 150A			
1	01.00	M	CL	109
	01.00	T F	TECH A	308
	01.00	TH	AG	152
2	06.00-07.25 PM	M W	PHY SC	218
314B	SOIL MECHANICS		03.0	CR
	PREREQ E T 314A			
1	09.00	M W	TECH A	221
	06.00-09.00 PM	T	TECH D	12A
318A	HYDRAULICS		03.0	CR
	PREREQ E T 260C			
1	08.00	M W F	TECH D	14A
318B	HYDRAULICS		03.0	CR
	PREREQ E T 318A			
1	10.00	M W	TECH D	14A
	10.00-12.50	F	TECH D	14A
2	02.00	T TH	TECH D	14A
	06.00-09.00 PM	TH	TECH D	14A
320A	MECH ENGR LAB		03.0	CR
	PREREQ ENGR 300A			
1	10.00-12.50	T TH	TECH D	122
322A	I C ENGINES		03.0	CR
	PREREQ ENGR 300B			
1	04.00	M W F	TECH A	221
332B	ELECT MACHINERY		03.0	CR
	PREREQ E T 332A			
1	10.00	T TH	TECH A	220
	01.00-03.50	F	TECH D	122
2	10.00	T TH	TECH A	220
	02.00-04.50	F	TECH D	122
338A	ELECT INSTRUMENT		04.0	CR
	PREREQ E T 304 AND 318			
1	08.00	M W F	TECH A	208
	02.00-04.50	T	TECH B	139
2	08.00-08.90	M W F	TECH A	208
	06.00-08.50 PM	TH	TECH B	139
349B	UNIT OPERATIONS		03.0	CR
	PREREQ E T 349A			
1	03.00	M W F	TECH A	220
363B	SURVEYING		04.0	CR
	PREREQ E T 363A			
1	12.00	T TH	TECH A	319
	02.00-04.50	M W	TECH A	319
364A	HIGHWAY ENGINEERING		03.0	CR
	PREREQ E T 363 OR CONCURRENT			
	ENROLLMENT IN 363A			
1	01.00	M W F	TECH A	319
426B	PHOTOGRAMMETRY		03.0	CR
	PREREQ E T 426A			
1	11.00	M W F	TECH A	319

430	SPECIAL PROBLEMS	02.0 TO 08.0 CR	
	PREREQ	CONSENT OF COORDINATOR	
1	TO BE ARRANGED		
437B	IND ELECT AND COMM	03.0 CR	
	PREREQ	E T 437A	
1	08.00	T TH	TECH A 208
	01.00-03.50	M	TECH D 106
2	08.00	T TH	TECH A 208
	02.00-04.50	TH	TECH D 106
465A	INDUSTRIAL SAFETY	04.0 CR	
	PREREQ	JR STANDING	
1	11.00	MT THF	TECH A 208

English (ENG)

105A	ENG COMP-FOREIGN ST	03.0 CR	
	PREREQ	EQUIVALENT TO GSD 101-LIMITED TO FOREIGN STUDENTS	
1	08.00	M W F	H EC 122A
	08.00	T	PULL 41
2	01.00	M W F	WHAM 137
	08.00	T	PULL 41
105B	ENG COMP-FOREIGN ST	03.0 CR	
	PREREQ	EQUIVALENT TO GSD 102-LIMITED TO FOREIGN STUDENTS	
1	08.00	M W F	WHAM 301A
	10.00	T	H EC 201
2	10.00	M W F	0862 101
	10.00	T	H EC 201
300A	GRAMMATICAL ANAL	03.0 CR	
1	08.00	M W F	UNIT 5 101
2	09.00	M W F	UNIT 1 101
3	11.00	M W F	UNIT 9 101
4	01.00	M W F	UNIT 10 101
300B	GRAMMATICAL ANAL	03.0 CR	
	PREREQ	ENG 300A	
1	09.00	M W F	UNIT 5 101
2	11.00	M W F	UNIT 5 101
3	01.00	M W F	UNIT 5 101
302A	ENG LIT TO 1550	04.0 CR	
	PREREQ	REQUIRED OF STUDENTS WITH CONCENTRATION IN ENG	
1	10.00	MT THF	UNIT 11 101
2	02.00	MT THF	PULL 41
302B	ENG LIT 1550-1750	04.0 CR	
	PREREQ	REQUIRED OF STUDENTS WITH CONCENTRATION IN ENG	
1	09.00	MT THF	UNIT 12 101
2	11.00	MT THF	UNIT 11 101
3	01.00	MT THF	UNIT 12 101
4	02.00	MT THF	0861 101
5	03.00	MT THF	WHAM 210
6	05.45-07.25	M W	UNIT 12 101
302C	ENG LIT-AFTER 1750	04.0 CR	
	PREREQ	REQUIRED OF STUDENTS WITH CONCENTRATION IN ENGLISH	
1	01.00	MT	PULL 39
	01.00	W F	0862 102
2	03.00	MT THF	UNIT 13 101
309A	AMER LIT-TO 1860	04.0 CR	
1	10.00	MT THF	H EC 206
2	12.00	MT THF	WHAM 321
3	02.00	MT THF	WHAM 312
309B	AMER LIT-SINCE 1860	04.0 CR	
1	11.00	T TH	WARREN 129
	11.00	W	TECH A 208
	11.00	F	H EC 118
309C	AM LIT 1914-PRESENT	04.0 CR	
1	09.00	MT THF	WHAM 312
2	02.00	MT THF	WHAM 329
390	ADVANCE COMPOSITION	03.0 CR	
	PREREQ	C AVERAGE IN GSC 101, 102 AND GSC 103	

1	09.00	WTH	UNIT 8	101	
	09.00	M	UNIT 3	101	
2	11.00	T THF	UNIT 8	101	
3	01.00	MT TH	GYM	204	
4	02.00	MT TH	UNIT 5	101	
5	07.35-08.50 PM	T TH	WHAM	312	
403	HIST - ENG LANGUAGE		04.0 CR		
1	03.00	MT THF	WHAM	312	FRIEND JOSEPH
404B	MID ENG LIT-CHAUCER		04.0 CR		
1	10.00	T THF	H EC	120	HATTEN THOMAS J
	10.00	M	H C	202	HATTEN THOMAS J
405A	DESCRIP LINGUISTICS		04.0 CR		
	PREREQ ENG 407A				
1	10.00	MT THF	AG	220	REDDEN JAMES
2	01.00	MT THF	PULL	43A	CARRELL PATRICIA L
405B	DESCRIP LINGUISTICS		04.0 CR		
	PREREQ 400 OR CONSENT OF INSTRUCTOR				
1	10.00	MT THF	UNIT10	101	KATRANIDES ARISTOTLE
2	02.00	MT THF	PULL	43A	CARRELL PATRICIA L
406	ENGLISH PHONOLOGY		04.0 CR		
	PREREQ ENG 400 CR EQUIVALENT				
1	11.00	M F	WHAM	301A	KATRANIDES ARISTOTLE
	11.00	T TH	0871	101	KATRANIDES ARISTOTLE
412D	ENG LIT-NONDRAMATIC		04.0 CR		
	PREREQ MAY BE TAKEN SINGLY				
1	09.00	MT THF	H EC	122	SCHONHORN MANUEL
418	ENG LIT 1885-1914		04.0 CR		
1	08.00	MT THF	WHAM	312	BOYLE TED
420B	AMER POET - MODERN		04.0 CR		
	PREREQ MAY BE TAKEN SINGLY				
1	01.00	MT THF	H EC	122	STIBITZ E EARLE
421B	ENG POET-LATER ROM		04.0 CR		
1	02.00	MT THF	H EC	122	BENZIGER JAMES G
425	MODERN CONT POETRY		04.0 CR		
1	02.00	MT THF	PULL	43	RAIZIS BYRON M
431B	AM WRIT 1800-1865		04.0 CR		
1	03.00	MT THF	H EC	122	PIPER HENRY
442	ROMANTIC PROSE		04.0 CR		
1	12.00	MT THF	H EC	122	GOODIN GEORGE
458B	AMER FICT - CONTEMP		04.0 CR		
1	04.00	MT THF	WHAM	321	PIPER HENRY DAN
460B	BRIT DRAMA-JACCBEAN		04.0 CR		
1	09.00	MT THF	UNIT 6	101	GRIFFIN ROBERT
460C	BRIT DRAMA-RES-18C		04.0 CR		
1	11.00	MT THF	H EC	122	VIETH DAVID
464	MODERN CONT DRAMA		04.0 CR		
1	01.00	MT THF	WHAM	321	WINN GEORGIA
471A	SHAKESPEARE		04.0 CR		
1	11.00	MT F	H EC	201	SCHULTZ HOWARD
	11.00	TH	UNIT12	101	SCHULTZ HOWARD
471B	SHAKESPEARE		04.0 CR		
1	08.00	MTWTH	H EC	122	BALDWIN T W
2	10.00	MT THF	WHAM	312	
485	PROB TEACH ENG /P/		04.0 CR		
1	11.00	MT THF	UNIT10	101	
2	02.00-03.50	T TH	UNIT 9	101	EVANS WM
492A	PROFESSIONAL WRI II		04.0 CR		
	PREREQ ENGLISH 392				
1	09.00-11.50	W	WHAM	307	KINSELLA TOM
	TOPIC FICTION				
495B	LIT CRITICISM-MOD		04.0 CR		
1	12.00	MT THF	WHAM	206	HURLEY PAUL JOSEPH
2	05.45-07.25	T TH	WHAM	312	HURLEY PAUL
497A	HONORS ENGLISH		04.0 CR		
	PREREQ DEPARTMENTAL APPROVAL REQUIRED				
1	04.00	MT THF	WHAM	312	RUDNICK HANS
497B	HONORS ENGLISH		04.0 CR		
	PREREQ DEPARTMENTAL APPROVAL REQUIRED				
1	04.00	MT THF	WHAM	312	RUDNICK HANS
497C	HONORS ENGLISH		04.0 CR		
1	TO BE ARRANGED				

499	READINGS IN ENGLISH	02.0 TO 06.0 CR			
	PREREQ	NO MORE THAN 4HRS MAY BE TAKEN IN ANY ONE QUARTER			
	1	TO BE ARRANGED			
501	OLD ENGLISH GRAMMAR	04.0 CR			
	1	12.00 MT THF WHAM	301A	RAINEOW	PAMOND
505B	CONTRAS + HIST LING	04.0 CR			
	1	02.00 MT THF WHAM	321		
508	STUDIES IN CHAUCER	04.0 TO 12.0 CR			
	1	03.00-04.50 T TH WHAM	301B	GARDNER	JOHN
	TOPIC	CANTERBURY TALES + SOCIAL IDEALIS M			
511	STUD IN RENAISSANCE	04.0 TO 12.0 CR			
	1	08.00-09.50 T TH WHAM	301B	SCHULTZ	HOWARD
	TOPIC	SPENCER			
514C	LATER 18TH C LIT	04.0 TO 08.0 CR			
	1	10.00-11.50 T TH WHAM	301B	SCHONHORN	MANUEL
	TOPIC	SAMUEL RICHARDSON			
519	STUD CONT BRIT LIT	04.0 TO 12.0 CR			
	1	03.00-04.50 M W WHAM	212	HILLEGAS	MARK
	TOPIC	MYTHS OF TIME AND SPACE			
534	STUD EAR 19C AM WR	04.0 TO 12.0 CR			
	1	10.00 M F WHAM	301A	STIBITZ	E EARLE
	TOPIC	HAWTHORNE			
538	PROB IN AM LIT	04.0 TO 12.0 CR			
	1	01.00-02.50 T TH WHAM	301B	DAVIS	TCM
	TOPIC	EDWARD TAYLOR			
540	STUDIES-LINGUISTICS	02.0 TO 08.0 CR			
	PREREQ	ENG 400 CR EQUIVALENT, CONSENT OF INSTRUCTOR			
	1	01.00 M F CL	326	MILLER	GARY
		01.00 T TH WHAM	312	MILLER	GARY
543	STUD VICT PROSE	04.0 TO 12.0 CR			
	1	08.00-09.50 M W WHAM	301B	PARTLOW	ROBERT B JR
	TOPIC	INTELLECTUAL BACKGRNDS-VICTORIAN PERIOD			
579B	STUDIES IN MOD LIT	04.0 TO 08.0 CR			
	1	03.00-04.50 M F WHAM	301B	MCORE	H T
	TOPIC	SHAW AND CNEILL			
581B	LINGUISTICS IN H S	04.0 CR			
	1	06.30-10.00 PM T WHAM	202	APPLEBY	BRUCE
585	TEACHING COL COMP	02.0 CR			
	1	TO BE ARRANGED			
588B	METH ENG FOR LANG	03.0 CR			
	1	09.00 MTWTH WHAM	212	REDDEN	
	2	09.00 MTWTH WHAM	301A	PARISH	CHARLES
594A	STUD LIT FORM-SYMB	04.0 CR			
	1	01.00-02.50 M WHAM	301B		
		01.00-02.50 F WHAM	206		
596	STYLISTICS	04.0 CR			
	1	05.45-07.25 T TH WHAM	301B		
	TOPIC	POETIC STYLE			
597	READ-LINGUISTICS	02.0 TO 06.0 CR			
	PREREQ	ENG 400 CR EQUIVALENT-CONSENT OF DEPARTMENT			
	1	TO BE ARRANGED			
598A	IND REV ENG AM LIT	01.0 TO 03.0 CR			
	1	TO BE ARRANGED			GRIFFIN ROBERT P
598B	IND REV ENG AM LIT	01.0 TO 03.0 CR			
	1	TO BE ARRANGED			
600	DISSERTATION	01.0 TO 48.0 CR			
	1	TO BE ARRANGED			GRIFFIN ROBERT P

Finance (FIN)

305	PERSONAL FINANCE	04.0 CR			
	1	12.00 MT THF WHAM	302		
320	INTRO TO BUS FIN	04.0 CR			
	PREREQ	ACCT 261 CR CONSENT OF INSTR, ECON 215			
	1	09.00 MTWTHF WHAM	302		
	2	11.00 MTWTHF WHAM	302		

3	01.00	MTWTHF	AG	216	
4	02.00	MTWTHF	LS I	323	
5	02.00	MTWTHF	LAWSON	221	
324	SECURITY ANALYSIS		04.0	CR	
	PREREQ 323				
1	11.00	TWTHF	0875	101	
325	FINANCIAL MARKETS		04.0	CR	
	PREREQ FIN 320	CR	CONSENT OF INSTR		
1	10.00	MTWTH	WHAM	302	
371	BUSINESS LAW I		04.0	CR	
1	08.00	M WTHF	0861	102	
2	08.00	M WTHF	0862	101	
3	09.00	M WTHF	0862	101	
4	09.00	M WTHF	WHAM	308	
372	BUSINESS LAW II		04.0	CR	
	PREREQ 371				
1	12.00	MT THF	H EC	206	
430	BUSINESS FINANCE		04.0	CR	
1	01.00	MTWTHF	AG	216	
473	BUS IN LEG ENVIRON		04.0	CR	
	PREREQ SENIOR STANDING				
1	01.00	MTW F	LAWSON	131	WATERS GOLA
2	03.00	MTW F	LAWSON	201	WATERS GOLA

Food & Nutrition (F & N)

106	FUNDAMENT FOODS		03.0	CR	
	PREREQ	NOT OPEN TO STUDENTS SPECIALIZ			
		IN F+N OR HEED			
1	02.00	M F	H EC	212	
	02.00-03.50	W	H EC	212	
256	SCIENCE OF FOOD		05.0	CR	
	PREREQ F+N 100, CHEM 110 AND 240	OR			
	EQUIVALENT				
1	11.00-12.50	T TH	H EC	212	
	11.00	M W F	H EC	140B	
2	01.00-02.50	T TH	H EC	214	
	11.00	M W F	H EC	140B	
3	01.00-02.50	T TH	H EC	212	
	11.00	M W F	H EC	140B	
320	NUTRITION		03.0	CR	
	PREREQ F+N 100, CHEM 110 + 240				
1	04.00	MT TH	H EC	203	PAYNE IRENE R
321	F+N DEMONSTRATION		03.0	CR	
	PREREQ F+N 256				
1	10.00	T TH	H EC	140B	
	11.00-12.50	T TH	H EC	140B	
2	10.00	T TH	H EC	140B	
	12.00-01.50	M W	H EC	101	
360A	QUANT FOOD PROD		04.0	CR	
	PREREQ F+N 256				
1	08.00-10.50	T TH	H EC	107	BECKER
362	INST EQUIP + LAYOUT		03.0	CR	
	PREREQ F+N 256 FIELD TRIP				
1	10.00	M W F	H EC	212	BECKER
420	RECENT DEV IN NUTRI		03.0	CR	
	PREREQ F+N 320	CR	EQUIVALENT		
1	03.00	M WTH	H EC	214	KCNISKI FRANK
481	READINGS		02.0 TO 04.0	CR	
	PREREQ F+N 320 + CONSENT OF CHAIRMAN				
	AND INSTRUCTOR				
1	TO BE ARRANGED				
515	SEMINAR		01.0 TO 06.0	CR	
	PREREQ F+N 420 OR 421				
1	02.00	F	H EC	107	PAYNE IRENE
572	SPECIAL PROBLEMS		02.0 TO 08.0	CR	
1	TO BE ARRANGED				
599	THESIS		05.0 TO 09.0	CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	TO BE ARRANGED				

Foreign Languages (FL)

353	METH TEACH MOD F L		04.0	CR	
	PREREQ FR, GER, SPAN, CR RUSS 201C				

Prospective teachers see F L 353
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Chinese (CHIN)

120B	CHIN CONVERSATION	01.0 CR			
	PREREQ CONCURRENT ENROLLMENT IN				
	GSD 120B				
1	10.00	TH	WHLR	212	YANG ISABELLA
201B	INTER CHINESE	05.0 CR			
	PREREQ CHIN 201A				
1	11.00	MTWTH	0862	101	YANG ISABELLA
	11.00	F	WHAM	137	YANG ISABELLA
315	READINGS IN CHINESE	02.0 TO 06.0 CR			
	PREREQ CHIN 201C				
1	TO BE ARRANGED				YANG ISABELLA

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French (FR)

123A	FRENCH CONVERSATION	01.0 CR			
	PREREQ CONCURRENT ENROLLMENT IN				
	GSD 123A				
1	10.00	T	WHLR	107	
2	11.00	W	WHLR	203	
3	02.00	W	WHAM	329	
123B	FRENCH CONVERSATION	01.0 CR			
	PREREQ CONCURRENT ENROLLMENT IN				
	GSD 123B				
1	08.00	T	WHLR	107	
2	09.00	W	UNIT 4	101	
3	10.00	TH	WHLR	207	
4	11.00	T	UNIT 9	101	
5	12.00	T	UNIT 1	101	
6	01.00	W	CL	25	
7	02.00	F	WHLR	113	
123C	FRENCH CONVERSATION	01.0 CR			
	PREREQ CONCURRENT ENROLLMENT IN				
	GSD 123C				
1	04.00	T	WHLR	107	
161A	FR FOR GRAD STUDENT	00.0 CR			
1	01.00	MTW F	WHLR	113	
161B	FR FOR GRAD STUDENT	00.0 CR			
1	01.00	M W F	PARK	309	
	01.00	T	WHLR	107	
201A	INTERMEDIATE FRENCH	03.0 CR			
	PREREQ GSD 123-9 CR GSD 123C, OR				
	2 YRS HIGH SCHCCL				
1	10.00	TW F	WHLR	207	
	LAB-10 00 M				
2	12.00	T	H C	202	
	12.00	W F	H EC	102	
	LAB-12 00 M				
201B	INTERMEDIATE FRENCH	03.0 CR			
	PREREQ FR 201A OR EQUIVALENT				
1	08.00	M	H EC	203	
	08.00	W F	WHAM	321	
	LAB-8 00 TU				
2	09.00	T TH	UNIT 1	101	
	09.00	M	H C	202	
	LAB-09 00 F				
3	11.00	M F	WHLR	113	
	11.00	W	H EC	106	
	LAB-11 00 TU				
4	12.00	M W F	0862	101	
	LAB-12 00 TU				
5	12.00	MT F	GYM	204	
	LAB-12 00 W				

6	01.00	TW F	UNIT 4	101	
	LAB-1 00 M				
7	02.00	M W F	0871	102	
	LAB-2 00 TH				
8	03.00	MT TH	WHLR	107	
	LAB-3 00 W				
9	03.00	M W F	WHAM	112	
	LAB-3 00 TU				
201C	INTERMEDIATE FRENCH		03.0 CR		
	PREREQ FR 201B OR EQUIVALENT				
1	01.00	M	UNIT 4	101	
	01.00	T TH	UNIT11	101	
	LAB-1 00 W				
220B	INTER FR CONVERSAT		02.0 CR		
	PREREQ FR 201C OR CONCURRENT				
	REGISTRATION IN 201				
1	08.00	T TH	UNIT10	101	
2	09.00	W F	WHLR	207	
3	10.00	T TH	WHLR	214	
4	12.00	W F	WHAM	137	
5	02.00	T TH	WHLR	113	
350	ADV COMP-AND CONV		04.0 CR		
	PREREQ FR 201C				
1	11.00	TWTHF	WHAM	312	
2	02.00	M	H EC	118	
	02.00	W	WHLR	113	
	02.00	T TH	H EC	106	
352	FRENCH PHONETICS		03.0 CR		
	PREREQ FR 201C				
1	10.00	M	WHLR	113	SMITH MADELEINE M
	10.00	W	H EC	118	SMITH MADELEINE M
	10.00	TH	H EC	122	SMITH MADELEINE M
354	INTRO LIT ANALYSIS		04.0 CR		
	PREREQ FR 350				
1	02.00	TWTHF	0875	101	C'MEARA
397A	SURVEY FR LIT		03.0 CR		
	PREREQ 350 OR CONSENT OF INSTRUCTOR				
1	09.00	M	WHLR	113	VCGELY
	09.00	T TH	PARK	111	
397B	SURVEY FR LIT		03.0 CR		
	PREREQ 397A				
1	01.00	T	WHLR	207	GUINA
	01.00	W F	WHLR	214	
401B	17TH CENT FR DRAMA		03.0 CR		
1	11.00	M W	H C	202	C'MEARA
	11.00	TH	0862	102	C'MEARA
408	FRENCH CIVILIZATION		04.0 CR		
	PREREQ 350, OR CONSENT OF INSTRUCTOR				
1	02.00	M W F	WHLR	212	KILKER
516A	FR LIT OF THE RENAI		03.0 CR		
1	12.00	T TH	WHLR	203	ROWLAND
522	STUD-20TH C FR LIT		02.0 TO 06.0 CR		
1	07.35-09.15 PM	W	WHLR	203	RCWLAND
	TOPIC-APOLLINAIRE AND VALERY				
543	RESEARCH PROBLEMS		02.0 TO 06.0 CR		
1	TO BE ARRANGED				
599	THESIS		02.0 TO 09.0 CR		
1	TO BE ARRANGED				

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German (GER)

126A	GERMAN CONVERSATION		01.0 CR		
	PREREQ CONCURRENT ENROLLMENT IN				
	GSD 126A				
1	09.00	TH	0871	102	
2	01.00	TH	0871	102	
3	02.00	TH	AG	218	
126B	GERMAN CONVERSATION		01.0 CR		
	PREREQ CONCURRENT ENROLLMENT IN				
	GSD 126B				

1	08.00	T TH	WHLR	212	
	SECT 1 MUST ENROLL IN GSD 126B SECT 1				
2	09.00	T	H EC	102	
3	11.00	TH	WHAM	137	
4	01.00	T	H EC	104	
5	02.00	T	0862	101	
6	06.00	PM TH	WHLR	203	
126C	GERMAN CONVERSATION				01.0 CR
	PREREQ CONCURRENT ENROLLMENT IN GSD 126C				
1	04.00	TH	H EC	122A	
161A	GER FOR GRAD STUD				00.0 CR
1	02.00	TWTHF	UNIT13	101	
161B	GER FOR GRAD STUD				00.0 CR
1	02.00	TWTHF	UNIT14	101	
201A	INTERMEDIATE GERMAN				03.0 CR
	PREREQ GSD 126-9 CR GSD 126C OR EQUIVALENT				
1	09.00	W F	WHAM	137	
	09.00	T	WHAM	319	
	LAB-9 00 M				
2	02.00	M W F	WHLR	207	
	LAB-2 00 TU				
201B	INTERMEDIATE GERMAN				03.0 CR
	PREREQ GER 201A CR EQUIVALENT				
1	08.00	M W F	WHLR	107	
	LAB-8 00 TH				
2	09.00	M THF	WHLR	212	
	LAB-9 00 W				
3	11.00	M WTH	H EC	104	
	LAB-11 00 F				
4	01.00	M W F	WHLR	212	
	LAB-1 00 TH				
5	06.00-07.25 PM	T TH	WHLR	107	
	LAB-5 00 TU				
220B	INTER GER CONVERSAT				02.0 CR
	PREREQ GER 201C CR CONCURRENT REGISTRATION IN 201				
1	09.00	T TH	H EC	122A	
2	11.00	T TH	WHAM	317	
3	01.00	T TH	WHLR	212	
301B	SUR GER LIT TO 1800				04.0 CR
	PREREQ GER 301A				
1	09.00	MT THF	UNIT 4	101	LIEDLOFF
304B	ADV COMP + CONVERS				04.0 CR
1	10.00	T THF	PARK	308	COSENTINO
	10.00	M	UNIT 4	101	
310B	INTRO TO GERMAN LIT				04.0 CR
1	11.00	M	0875	101	ANDERSON VERNON L
	11.00	T THF	H EC	106	ANDERSON VERNON L
411B	MIDDLE HIGH GERMAN				03.0 CR
1	01.00	M W F	WHLR	203	FRENCH
413A	GERMAN LINGUISTICS				03.0 CR
1	10.00	M W F	WHLR	203	FRENCH
498	READG 19TH CT LIT				01.0 TO 02.0 CR
1	02.00	T TH	PARK	309	LIECLOFF
513	20TH CENTURY NOVEL				03.0 CR
1	09.00	M W	UNIT 2	101	LIECLOFF
	09.00	F	CL	326	
543	RESEARCH PROBLEMS				02.0 TO 06.0 CR
1	TO BE ARRANGED				
599	THESIS				03.0 TO 09.0 CR
1	TO BE ARRANGED				

Prospective teachers see F L 353
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modern foreign languages.

Greek (GRK)

201B	INTERMEDIATE GREEK				04.0 CR
	PREREQ GRK 201A				
1	TO BE ARRANGED				

315 READINGS-GRK AUTHOR 02.0 TO 08.0 CR
 PREREQ BY PERMISSION ONLY
 1 TO BE ARRANGED

Italian (ITAL)

144B ITALIAN CONVERSATION 01.0 CR
 PREREQ CONCURRENT ENROLLMENT IN GSD 1
 44B
 1 09.00 T PULL 39
 2 01.00 W PULL 43A IBBA MARIA
 3 06.00 PM W WHLR 113
 201B INTERMEDIATE ITAL 03.0 CR
 PREREQ ITAL 201A
 1 08.00 MT PULL 39 IBBA MARIA
 08.00 F PULL 41 IBBA MARIA
 LAB-8 00 W

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Latin (LATN)

201B INTERMEDIATE LATIN 04.0 CR
 1 11.00 MT THF WHLR 203 SHELBY THOMAS M
 303 TACITUS 04.0 CR
 PREREQ LATN 201C OR EQUIVALENT
 1 09.00 MTWTH WHLR 203 SHELBY THOMAS M
 315 READ-LATN AUTHORS 02.0 TO 08.0 CR
 PREREQ BY SPECIAL PERMISSION ONLY
 1 02.00 T TH WHLR 203 SHELBY THOMAS M

Portuguese (PORT)

135B PORT CONVERSATION 01.0 CR
 PREREQ CONCURRENT ENROLLMENT IN GSD 1
 35B
 1 09.00 T AG 218
 2 10.00 F WHAM 212 PEVERLY CLEMENT F
 201B INTERMEDIATE PORT 03.0 CR
 PREREQ PORT 201A
 1 03.00 M W F UNIT12 101 PEVERLY CLEMENT F
 LAB-3 00 TH

Russian (RUSS)

136A RUSS CONVERSATION 01.0 CR
 PREREQ CONCURRENT ENROLLMENT IN
 GSD 136A
 1 10.00 TH WHAM 137
 136B RUSS CONVERSATION 01.0 CR
 PREREQ CONCURRENT ENROLLMENT IN
 GSD 136B
 1 08.00 TH H EC 106
 2 10.00 TH H EC 208
 3 02.00 TH H EC 118
 201B INTERMED RUSSIAN 03.0 CR
 PREREQ RUSS 201A
 1 09.00 M CL 25
 09.00 F WHAM 212
 ADDITIONAL MTGS AT 9 00 TL+W
 2 04.00 M W F WHLR 203
 LAB-4 00 TH
 220B INTER RUSS CONVER 02.0 CR
 PREREQ RUSS 201 CR CONCURRENT
 REGISTRATION
 1 01.00 T TH WHAM 328
 308B SURV RUSS LIT 03.0 CR
 PREREQ RUSS 308A
 1 10.00 M W F WHAM 137 KUPCEK JOSEPH R
 330B ADV COMP AND CONV 02.0 CR
 PREREQ CONCURRENT ENROLLMENT IN RUSS
 308B
 1 10.00 T TH WHLR 203 SHANKOVSKY, IGOR
 416 RUSS POETRY-1920 ON 04.0 CR
 PREREQ RUSS 308C

1	02.00	M	WHAM	301A	SHANKOVSKY IGOR
	02.00	T	GYM	204	
	02.00	W	WHAM	212	
	02.00	F	MAIN	101	
509	RUSS LIT 17TH CENT			03.0	CR
1	TO BE ARRANGED				KUPCEK
514B	HISTORY - RUSS LANG			02.0	CR
1	11.00	T TH	WHLR	212	KUPCEK
543	RESEARCH PROBLEMS			02.0 TO 06.0	CR
1	TO BE ARRANGED				KUPCEK
599	THESIS			02.0 TO 09.0	CR
1	TO BE ARRANGED				

Prospective teachers see F L 353
for listing of methods in teaching
modern foreign languages.

Spanish (SPAN)					
140A	SPAN CONVERSATION			01.0	CR
	PREREQ	CONCURRENT	ENROLLMENT IN		
		GSD 140A			
1	09.00		TH	CL	25
2	10.00		TH	H EC	104
3	02.00		TH	WHLR	212
4	06.00	PM T		WHLR	203
140B	SPAN CONVERSATION			01.0	CR
	PREREQ	CONCURRENT	ENROLLMENT IN	GSD 1	
		40B			
1	09.00		W	UNIT 12	101
2	10.00		W	WHAM	212
3	11.00	M		TECH B	20
4	12.00	T		WHLR	113
5	01.00	W		0871	101
6	02.00		F	H EC	201
7	03.00	W		WHLR	107
140C	SPAN CONVERSATION			01.0	CR
	PREREQ	CONCURRENT	ENROLLMENT IN		
		GSD 140C			
1	11.00		T	H EC	118
161A	SPAN FOR GRAD STUD			00.0	CR
1	12.00	MTWTH		WHLR	207
161B	SPAN FOR GRAD STUD			00.0	CR
1	12.00	MTWTH		PARK	111
201A	INTERMED SPANISH			03.0	CR
	PREREQ	GSD 140-9 CR GSD	140C OR 2 YRS		
		HIGH SCHCCL			
1	11.00		T	WHAM	328
	11.00		THF	WHAM	212
	LAB-11 00 M				
2	02.00		T F	GYM	203
	02.00		TH	GYM	204
	LAB-2 00 W				
201B	INTERMED SPANISH			03.0	CR
	PREREQ	SPAN 201A			
1	08.00	MT TH		PARK	204
	LAB-8 00 F				
2	09.00	M W F		PIERCE	130
	LAB-9 00 TH				
3	10.00	M W F		H EC	104
	LAB-10 00 TH				
4	11.00	M W F		AG	220
	LAB-11 00 TH				
5	12.00	M W F		PULL	41
	LAB-12 00 TH				
6	01.00	M W F		WHAM	312
	LAB-1 00 TU				
7	02.00	TW F		PARK	301
	LAB-2 00 M				
8	04.00	M W F		H EC	206
	LAB-4 00 TU				
220B	INTER SPAN CONVER			02.0	CR
	PREREQ	SPAN 220A			

1	09.00	W	H EC	122	
	09.00	F	WHAM	301B	
2	09.00	W F	H EC	104	
3	12.00	T TH	0861	101	
4	12.00	T TH	WHAM	203	
5	02.00	M W	PARK	204	
6	02.00	M W	TECH A	120	
310B	SURVEY SPANISH LIT		03.0	CR	
1	09.00	T	UNIT 13	101	CARLSON
	09.00	W F	PHY SC	116	
2	11.00	M W F	WHLR	214	ARTILES
3	03.00	M W F	UNIT 9	101	
320B	ADV COMP AND CONV		02.0	CR	
1	10.00	M W	H EC	102	DAVIS J CARY
2	11.00	T TH	WHLR	207	
3	02.00	T TH	H EC	104	
320C	ADV COMP AND CONV		02.0	CR	
1	03.00	T TH	WHLR	203	
333B	SURV SPAN AMER LIT		03.0	CR	
1	10.00	M W F	H EC	201	MEINHARDT
2	02.00	M W F	CL	326	MEINHARDT
404A	SP LIT 20TH CENT		03.0	CR	
1	09.00	M T TH	H EC	104	ARTILES
426	MEXICAN SHORT STORY		03.0	CR	
1	11.00	M W F	WHLR	207	MEINHARDT
440A	GOLDEN AGE--DRAMA		03.0	CR	
1	02.00	M W TH	H EC	201	BARALT
500	SEMINAR LAT AM FICT	02.0	TO 06.0	CR	
1	01.00-02.50	T	H EC	201	MEINHARDT
501	SEMINAR SP AUTHOR	02.0	TO 06.0	CR	
1	10.00	T TH	H EC	122A	WCOBRIDGE
515B	OLD SPANISH		03.0	CR	
1	01.00	M W F	WHLR	207	DAVIS
543	RESEARCH PROBLEMS	02.0	TO 06.0	CR	
1	TO BE ARRANGED				
575	ADV TOPICS IN SPAN	03.0	TO 12.0	CR	
1	10.00	M	WHLR	207	ANDERSON
	10.00	W F	H EC	122A	
599	THESIS	02.0	TO 09.0	CR	
1	TO BE ARRANGED				

Prospective teachers see F L 353
for listing of methods in teaching
modern foreign languages.

Forestry (FOR)

301	SOIL SCI FORESTERS	00.0	TO 05.0	CR	
	PREREQ GSA 101B				
1	12.00	M W TH F	AG	166	JONES JOE H
	08.00-09.50	T	AG	167	JONES JOE H
2	12.00	M W TH F	AG	166	JONES JOE H
	12.00-01.50	T	AG	167	JONES JOE H
350A	FOR + OUTDOOR REC		03.0	CR	
1	11.00	M W F	AG	214	MISCHON
360	FARM FORESTRY		04.0	CR	
1	TO BE ARRANGED				RCTH PAUL L
363A	FOREST MENSURATION		04.0	CR	
	PREREQ GSD 110				
1	02.00	M T W TH	AG	166	NEUMANN F PHILIP
	08.00-10.50	F	AG	195	NEUMANN F PHILIP
2	02.00	M T W TH	AG	166	NEUMANN F PHILIP
	02.00-04.50	F	AG	187	NEUMANN F PHILIP
365A	SILVICULTURE		04.0	CR	
1	10.00	M T W F	AG	214	BUDELSKY CARL A
365C	SILVICULTURE-REG		03.0	CR	
	PREREQ FOR 365B				
1	01.00	M W F	AG	188	
375	FOREST MANAGEMENT		04.0	CR	
	PREREQ FOR 365 A+B				
1	01.00	T TH F	AG	168	ROTH PAUL L
	09.00-11.50	T	AG	187	ROTH PAUL L
2	01.00	T TH F	AG	168	RCTH PAUL L
	09.00-11.50	TH	AG	187	ROTH PAUL L

381	AGRI SEMINAR	01.0 TO 02.0 CR			
	PREREQ LIMITED TC SENICR STANDING				
1	04.00	1	AG	214	
390	SPEC PROB IN FOREST	01.0 TO 06.0 CR			
1	TO BE ARRANGED				
401	ADV FOR MENSURATION	03.0 CR			
	PREREQ FOR 363-9 CR EQUIVALENT				
1	TO BE ARRANGED				
410	FOR MGT WILDLIFE	03.0 CR			
	PREREQ ZOO 320 + CONCENTRATION IN FOR				
	OR CONSENT				
1	09.00	M W F	AG	214	
420	ADV WOOD TECHNOLOGY	04.0 CR			
	PREREQ FOR 320, MATH 111A+B OR EQUIV.				
1	02.00	MTWTH	AG	138	MCSLEMI ALI A
451A	FOR PARK PLAN DEVEL	03.0 CR			
	PREREQ FOR 350-6 CR CONSENT OF INSTR				
1	03.00-04.50	M W F	AG	195	MISCHEON
470B	ECON OF FORESTRY	04.0 CR			
	PREREQ FOR 470A				
1	08.00	MTWTH	AG	214	MCCURDY DWIGHT R
520A	READ FOR + FOR REC	01.0 TO 06.0 CR			
	PREREQ CONSENT CF INSTRUCTOR				
1	TO BE ARRANGED				
520B	READINGS RES ECON	01.0 TO 06.0 CR			
	PREREQ CONSENT CF INSTRUCTOR PLUS				
	FOR 375 CR EQUIVALENT				
1	TO BE ARRANGED				
520C	READ FOR PRO WD SCI	01.0 TO 06.0 CR			
	PREREQ CONSENT CF INSTRUCTOR				
1	TO BE ARRANGED				
575	RESEARCH	01.0 TO 06.0 CR			
1	TO BE ARRANGED				
581	ADVANCED FOR SEMIN	01.0 TO 06.0 CR			
	PREREQ CONSENT CF INSTRUCTOR				
1	TO BE ARRANGED				MCCURDY DWIGHT R
599	THESIS	01.0 TO 09.0 CR			
1	TO BE ARRANGED				

Geography (GEOG)

300	INTRO TO GEOG	04.0 CR			
1	10.00	MT	LAWSON	231	
	10.00-11.50	TH	WHAM	326	
2	10.00	MT	LAWSON	231	
	10.00-11.50	TH	UNIT13	101	
3	10.00	MT	LAWSON	231	
	10.00-11.50	W	UNIT14	101	
302	PHYSICAL GEOGRAPHY	04.0 CR			
	PREREQ GEOG 300				
1	09.00	MTWTH	AG	144	CARTER DOUGLAS B
304	ECONOMIC GEOGRAPHY	04.0 CR			
	PREREQ GEOG 300				
1	11.00	MTWTH	0483	101	THOMAS FRANK HENRY
306	CULTURAL GEOGRAPHY	04.0 CR			
1	01.00	MTWTH	0483	101	LOBB GARY
310A	CARTOGRAPH METHODS	04.0 CR			
	PREREQ GEOG 300				
1	02.00	T TH	0431	101	IRWIN, DAN
	02.00-03.50	M	0431	101	
2	02.00	T TH	0431	101	IRWIN, DAN
	02.00-03.50	W	0431	101	
402B	ADV PHYSICAL GEOG I	03.0 CR			
	PREREQ GEOG 302 CR CONSENT OF DEPT				
1	01.00	MT TH	AG	144	SHARPE DAVID
403A	ADV PHYS GEOG II	04.0 CR			
	PREREQ GEOG 302 CR CONSENT OF DEPT				
1	02.00	MTWTH	0483	101	CARTER, DOUGLAS
404B	ADV ECON GEOG I	03.0 CR			
	PREREQ GEOG 304 CR CONSENT OF DEPT				
1	12.00	M WTH	0483	101	SMITH DAVID M
406B	ADV CULT GEOG I	03.0 CR			
	PREREQ GEOG 306 CR CONSENT OF DEPT				

1	09.00	MT TH	AG	148	LOBB GARY
410A	ADV GEOG TECHNIQUES			04.0 CR	
	PREREQ	GEOG 31C	CR	CONSENT OF DEPT	
1	04.00	MTWTH	0431	101	
416A	ADV CARTOGRAPHY			04.0 CR	
	PREREQ	GEOG 31C			
1	03.00-04.50	T TH	0431	101	SMITH, DAVID
440	READINGS-MAJORS			02.0 TO 06.0 CR	
	PREREQ	MAJORS ONLY			
1	TO BE ARRANGED				
443	TEACHING OF GEOG			04.0 CR	
	PREREQ	GEOG 300			
1	09.00	MTWTH	0483	101	FORSLEY A DOYNE
471A	REGIONAL PLANNING			04.0 CR	
	PREREQ	GEOG MAJORS ONLY			
1	11.00	MTWTH	AG	144	FAIR DENIS
490A	TUTORIAL IN GEOG			02.0 CR	
	PREREQ	GEOG MAJOR AND SENIOR STANDING			
1	09.00-10.50	F	0483	101	
490B	TUTORIAL IN GEOG			01.0 TO 04.0 CR	
	PREREQ	GEOG MAJOR AND SENIOR STANDING			
1	09.00-10.50	F	0483	101	
490C	TUTORIAL IN GEOG			01.0 TO 04.0 CR	
	PREREQ	GEOG MAJOR AND SENIOR STANDING			
1	09.00-10.50	F	0483	101	
500	GEOG TECHNIQUES I			04.0 CR	
1	10.00	MTWTH	0483	101	
511	PHILOSOPHY OF GEOG			04.0 CR	
1	06.00-08.50 PM	TH	AG	144	FAIR, DENIS
514	TEACH COLL GEOG			02.0 CR	
	PREREQ	GRAD STANDING			
1	TO BE ARRANGED				
520	SEMINAR PHYS GEOG			02.0 TO 12.0 CR	
1	06.00-08.50 PM	M	0486	101	CARTER DOUGLAS B
521	SEM-ECON GEOG			02.0 TO 12.0 CR	
1	06.00-08.50 PM	T	0483	101	SMITH, DAVID
524	SEM CULTURAL GEOG			02.0 TO 08.0 CR	
1	06.00-08.50 PM	W	AG	144	LOBB, GARY
530	INDEP STUDY GEOG			02.0 TO 10.0 CR	
1	TO BE ARRANGED				
540A	RESEARCH PHYS GEOG			02.0 TO 36.0 CR	
	PREREQ	GEOG 520			
1	TO BE ARRANGED				
540B	RESEARCH-ECON GEOG			02.0 TO 36.0 CR	
	PREREQ	GEOG 521			
1	TO BE ARRANGED				
540C	RESEARCH REG GEOG			02.0 TO 36.0 CR	
	PREREQ	GEOG 522			
1	TO BE ARRANGED				
540D	RESEARCH CULT GEOG			02.0 TO 36.0 CR	
	PREREQ	GEOG 524			
1	TO BE ARRANGED				
599	THESIS			03.0 TO 09.0 CR	
	PREREQ	CONSENT OF DEPT			
1	TO BE ARRANGED				
600	DISSERTATION			01.0 TO 48.0 CR	
	PREREQ	CONSENT OF DEPT			
1	TO BE ARRANGED				

Geology (GEOL)

221	HISTORICAL GEOLOGY			03.0 CR	
	PREREQ	GEOL 220	CR	CONSENT OF INSTR,	
		ELEM BOT	CR	ZOOL	
1	11.00	W F	PARK	111	UTGAARD
	01.00-03.50	W	PARK	205	UTGAARD
2	11.00	W F	PARK	111	UTGAARD
	06.00-08.50 PM	W	PARK	205	UTGAARD
302	STRUCTURAL GEOL			04.0 CR	
	PREREQ	GEOL 220, 221, MATH	111A+B, PLUS		
		PHYS 111A	CR	211A	
1	01.00-03.50	M	PARK	205	SAWATZKY DON L
	11.00	MT TH	PARK	205	SAWATZKY DON L

310B	MINERALOGY II			04.0 CR	
	PREREQ	GEOL 310A			
1	04.00	M W F	PARK	103	HOOD WILLIAM C
	02.00-04.50	T	PARK	103	HOOD WILLIAM C
420B	GEOL OF PETROLEUM			04.0 CR	
	PREREQ	GEOL 420A			
1	11.00	M W F	PARK	110	BELL FRANK J
	01.00-03.50	F	PARK	205	BELL FRANK J
425B	INVERT-PALEONTOLOGY			04.0 CR	
1	09.00	TW F	PARK	110	UTGAARD JOHN EDWA
	01.00-03.50	TH	PARK	107	UTGAARD JOHN EDWA
435B	HYDROGEOLOGY			04.0 CR	
1	10.00	M W F	PARK	110	DAVIS
	01.00-03.50	M	PARK	115	
440	INDEPENDENT STUDY		01.0 TO 04.0 CR		
	PREREQ	GEOL 220,221,ADVANCED	STANDING		
1	TO BE ARRANGED				
460	GEOL DATA PROCESS			04.0 CR	
	PREREQ	MATH 225 CR ENGR 222			
1	04.00	M W F	COMM	9	FANG JEN-HO
	01.00-03.50	F	COMM	9	FANG JEN-HO
520A	ADV PETROL-IGNEOUS			04.0 CR	
1	TO BE ARRANGED				HOOD WILLIAM C
528	INTRO TO MICROPALAE		03.0 TO 09.0 CR		
	PREREQ	GEOL 425			
1	TO BE ARRANGED				UTGAARD
540	ADVANCED STUDIES			03.0 CR	
1	TO BE ARRANGED				CCHEN ARTHUR
	COAL PETROLOGY				
541	RESEARCH		01.0 TO 09.0 CR		
1	TO BE ARRANGED				
599	THESIS		02.0 TO 09.0 CR		
1	TO BE ARRANGED				

Government (GOVT)

200	INTR TO POL SCIENCE			04.0 CR	
1	03.00	MT THF	WHAM	228	PAINE
231	AMERICAN NATL GOVT			04.0 CR	
1	08.00	MTW F	0875	102	LANDECKER
2	11.00	MT THF	PULL	38	CHASTAIN
3	04.00	MTWTH	WHAM	201	HANSEN
232	STATE LOCAL GOVT			04.0 CR	
	PREREQ	231 OR GSE 211B			
1	10.00	MT THF	WHAM	201	STEINHAEUER
2	12.00	TWTHF	WHAM	208	RIDGEWAY MARIAN E
3	02.00	MT THF	WHAM	201	RILEY
4	04.00	MTWTH	LAWSON	131	BAKER
305	DEV AM CONSTITUTION			05.0 CR	
	PREREQ	GOVT 231			
1	08.00	MTWTHF	LAWSON	131	TURNER MAX WESLEY
321	READINGS		01.0 TO 06.0 CR		
	PREREQ	CONSENT OF INSTRUCTOR			
1	TO BE ARRANGED				SAPPENFIELD
330	ILL GOVERNMENT			02.0 CR	
	PREREQ	GOVT 232			
1	11.00	M W	LAWSON	231	ISAKOFF
2	03.00	T TH	LAWSON	131	BIANCHI
340	THE LEGIS PROCESS			03.0 CR	
	PREREQ	GOVT 231			
1	03.00	M W F	LAWSON	131	STEINHAEUER
350	MASTERPIECES-POL SC			04.0 CR	
	PREREQ	CONSENT OF DEPT			
1	06.30-10.00 PM	W	WHAM	301B	KAHN MELVIN A
361	PROB-PUBLIC ADMIN			03.0 CR	
	PREREQ	GOVT 360			
1	04.00	M WTH	WHAM	228	SAPPENFIELD
371	PRBLMS IN AM FGN PL			03.0 CR	
	PREREQ	GOVT 231			
1	11.00	M F	COMM	1006	LANDECKER
	11.00	W	AG	116	
380	POLITICAL PARTIES			04.0 CR	
	PREREQ	GOVT 231 CR 232			
1	01.00	MT THF	0861	101	JACKSON

398	GOVERNMENT AND LAW	04.0 CR				
	PREREQ GOVT 231					
1	09.00	T F	PULL	38	CREHER ROBERT H	
	09.00	M W	0875	101		
415B	POLITICAL BEHAVIOR			03.0 CR		
1	03.00	M W F	WHAM	208	EVERSON DAVID H	
425	BLKS+WHTS-AMER POL			04.0 CR		
	PREREQ GSB 211B CR GOVT 231					
1	02.00	M F	CL	109	JACKSON	
	02.00	T TH	PARK	204		
436	GOVT AND LABOR			03.0 CR		
	PREREQ ECON 215, CR CONSENT OF INSTRUCTOR					
1	03.00	MT F	AG	154	EDELMAN MILTON T	
	CROSS-LISTED WITH ECON 436					
450B	LATIN-AMERICAN GOVT			04.0 CR		
1	03.00	MTW F	WHAM	201	GARNER WILLIAM R	
452	GOVT AND POL AFRICA			04.0 CR		
	PREREQ GSB 390 CR CONSENT OF INSTR					
1	01.00	TWTH	WHAM	201	DALE	
453B	GOVT POL-SOV UNION			04.0 CR		
1	02.00	M W	WHAM	228	CHOU IKUA	
	02.00	T TH	WHAM	205		
457A	GOVT NEAR MID EAST			04.0 CR		
1	09.00	MT TH	WHAM	202	HANSEN	
	09.00	F	WHAM	208		
458B	GOVT + POL OF ASIA			04.0 CR		
1	01.00	M W	H EC	104	CHOU IKUA	
	01.00	T TH	WHAM	205		
458C	GOVT + POL OF ASIA			04.0 CR		
1	03.00	MTW F	UNIT 3	101	FARDENBERGH	
461	ORG THEO-PUBLIC ADM			04.0 CR		
	PREREQ GOVT 360 CR CONSENT OF INSTR					
1	08.00	MT TH	WHAM	228	GOODSELL	
466	STATE GOV ADM			03.0 CR		
	PREREQ GOVT 232					
1	09.00	M W F	WHAM	112	ISAKOFF JACK FEIN	
471	AM FOREIGN POLICY			04.0 CR		
	PREREQ GOVT 243 CR 371					
1	11.00	MT TH	WHAM	208	KLINGBERG	
472	INTERNATIONAL ORGAN			04.0 CR		
	PREREQ GSB 303					
1	10.00	T TH	AG	224	ABBASS	
	10.00	W	WHAM	201		
475B	INTERNATIONAL LAW			04.0 CR		
1	08.00	MTWTH	CL	326	JACOBINI H B	
478	INTERNATL POLITICS			04.0 CR		
	PREREQ GSB 303 CR CONSENT OF INSTR					
1	02.00	MTWTH	UNIT 3	101	LEVINE	
484A	HIST POL THEORY-ANC			04.0 CR		
1	09.00	T TH	GYM	203	MORTON WARD M	
	09.00	W	AG	152		
487A	AMERICAN POL IDEAS			03.0 CR		
1	10.00	M W F	CL	326	RIDGEWAY MARIAN E	
488B	REC POLIT THEORY			03.0 CR		
1	09.00-11.30	S	WHAM	228	MORTON WARD M	
495B	CONSTITUTIONAL LAW			04.0 CR		
1	09.00	MT TH	WHAM	329	NELSON RANDALL H	
499	SCOPE + MET OF GOVT			04.0 CR		
	PREREQ 200, AND 20 HRS IN COURSES NUMBERED ABOVE 399					
1	11.00	MT TH	CL	326	KENNEY DAVID T	
500A	METH EMPIRICAL RES			03.0 CR		
	PREREQ GOVT 499 CR CONSENT OF INSTR					
1	01.00	TWTH	CL	326	MILLER	
512	SEMINAR PUB ADMIN			04.0 CR		
	PREREQ GOVT 360 CR CONSENT OF INSTR					
1	03.00-04.50	M W	CL	326	TURNER	
515	SEM-COMPARATIVE GOV			04.0 CR		
1	09.00	MTWTH	CL	326	JACOBINI H B	
517	SEM PROB POL THEORY			04.0 CR		
	PREREQ GOVT 360 CR CONSENT OF INSTR					
1	03.00-04.50	T TH	CL	326	STAUBER	

520	SEM AMER FOR POLICY	04.0 CR	
	PREREQ GOVT 371 CR CONSENT OF INSTR		
1	03.00-04.50	1 TH	UNIT 7 101 TRIVERS
521	READINGS	01.0 TO 12.0 CR	
	PREREQ CONSENT OF INSTRUCTOR		
1	TO BE ARRANGED		JACOBINI
2	TO BE ARRANGED		JACOBINI
530	INTERNSP PUB AFF	04.0 TO 12.0 CR	
	PREREQ CONSENT OF DEPARTMENT		
1	TO BE ARRANGED		SAPPENFIELD M M
595	INDIVIDUAL RESEARCH	02.0 TO 12.0 CR	
	PREREQ GOVT 499 CR CONSENT OF INSTR		
1	TO BE ARRANGED		NELSON
599	THESIS	02.0 TO 09.0 CR	
	PREREQ GOVT 499 CR CONSENT OF INSTRUCTOR		
1	TO BE ARRANGED		JACOBINI
600	DISSERTATION	01.0 TO 48.0 CR	
	PREREQ MIN OF 36 HRS TO BE EARNED FOR DOC OF PHIL DEGREE		
1	TO BE ARRANGED		JACOBINI

Guidance and Educational Psychology (GUID)

305	EDUC PSYCHOLOGY	04.0 CR	
	PREREQ GSB 201C		
1	08.00	TWTHF	WHAM 105 BLUMENFELD GERALD J
2	12.00	MTW F	WHAM 105 BLUMENFELD
3	04.00	MTWTH	WHAM 105
422A	CONST-USE EVAL INST	04.0 CR	
	PREREQ GUID 305		
1	01.00-02.50	T	LAWSON 231 STAFF
	01.00-02.50	TH	WHAM 308
2	06.00-09.00 PM	TH	WHAM 228 LANGE
3	06.00-09.00 PM	M	WHAM 305 RECTOR
481	SEMINAR	02.0 TO 12.0 CR	
	PREREQ GUID 305 AND CONSENT OF INSTRUCTOR + DEPT		
1	TO BE ARRANGED		STAFF
501	SPEC RESEARCH PROB	02.0 TO 12.0 CR	
	PREREQ ADVANCED STANDING + CONSENT OF DEPARTMENT		
1	TO BE ARRANGED		
505	INTR TO STAT METH	04.0 CR	
1	08.00	MTWTH	WHAM 320 STAFF
2	06.00-07.50 PM	M W	WHAM 329 STAFF
506	ADV STATISTICAL MET	04.0 CR	
	PREREQ GUID 505		
1	08.00-09.50	M W	WHAM 317 STAFF
2	09.00-10.50	M W	WHAM 321 STAFF
3	09.00-10.50	T TH	WHAM 321 STAFF
4	06.00-09.00 PM	T	WHAM 228 LINDSEY
507	DES + ANAL OF EXPER	04.0 CR	
	PREREQ GUID 506		
1	08.00-09.50	T TH	WHAM 317 STAFF
2	01.00-02.50	M W	WHAM 317 STAFF
515	PSY ASPECTS OF ED	04.0 CR	
	PREREQ ADVANCED STANDING		
1	04.00-05.50	M W	WHAM 329 STAFF
521B	ANAL-CLASSRM LEARNG	04.0 CR	
	PREREQ GUID 521A		
1	04.00-05.50	M W	WHAM 205 SULZER
530	STANDARDIZED TEST	04.0 CR	
	PREREQ GUID 505		
1	06.00-09.00 PM	W	WHAM 228 BRADLEY
537A	COUNSEL THEOR--PRAC	04.0 CR	
	PREREQ CONSENT OF DEPARTMENT		
1	06.00-09.00 PM	T	WHAM 201 STAFF
541	OCCUP INF + GUID	04.0 CR	
	PREREQ GUID 442		
1	06.00-09.00 PM	TH	WHAM 201 RAMP
543	GUID THROUGH GROUPS	04.0 CR	
	PREREQ GUID 442		
1	03.00-04.50	1W	WHAM 317

545M	SEM-PSYC FOUND - ED	04.0 CR		
1	10.00-11.50 M W	WHAM 303	CODY JOHN J	
546A	PERSONALITY ASSESS	04.0 CR		
	PREREQ GUID 532A AND CONSENT OF INSTR			
1	06.00-09.00 PM TH	WHAM 319	DALY WILLIAM C	
548A	PRACT IN SEC GUID	02.0 TO 04.0 CR		
	PREREQ GUID 537 AND CONSENT OF INSTRU			
	CTOR			
1	TO BE ARRANGED		ALTEKRUSE	
	WILL MEET 1-5 F			
548B	PRACT IN ELEM GUID	02.0 TO 04.0 CR		
	PREREQ GUID 537 AND CONSENT OF INSTR			
1	TO BE ARRANGED		ALTEKRUSE	
	WILL MEET 8-12 F			
548C	PRAC IN COUNSELING	04.0 TO 08.0 CR		
	PREREQ CONSENT OF INSTRUCTOR			
1	TO BE ARRANGED			
548D	PRAC IN SCHOOL PSYC	02.0 TO 08.0 CR		
	PREREQ CONSENT OF INSTRUCTOR			
1	TO BE ARRANGED		SULZER BETH W	
555	SEM IN SCHOOL PSYC	02.0 TO 12.0 CR		
	PREREQ CONSENT OF INSTRUCTOR			
1	TO BE ARRANGED	WHAM	AMRI F	
562A	HUM DEV IN ED-CHILD	04.0 CR		
	PREREQ ADVANCED STANDING			
1	06.00-09.00 PM M	WHAM 321		
567	TOP SEM-EDUC PSYC	02.0 TO 12.0 CR		
	PREREQ CONSENT OF INSTRUCTOR			
1	TO BE ARRANGED			
568	TOP SEM-COUN + GUID	02.0 TO 12.0 CR		
	PREREQ CONSENT OF INSTRUCTOR			
1	TO BE ARRANGED		YATES J W	
580	TOP SEM-STAT + MEAS	02.0 TO 12.0 CR		
	PREREQ INSTRUCTORS PERMISSION			
1	TO BE ARRANGED		STAFF	
581	INTERN-COUNS + GUID	01.0 TO 12.0 CR		
	PREREQ GUID 548C			
1	TO BE ARRANGED		STAFF	
590	SEM - BEHAV FOUNDAT	02.0 CR		
	PREREQ FORMAL ADMISSION TO DOCTOR OF			
	PHIL STUDIES			
1	10.00-11.50 M	WHAM 301B	MCKENZIE WILLIAM R	
596	INDEP INVESTIGATION	02.0 TO 12.0 CR		
	PREREQ INSTRUCTORS PERMISSION			
1	TO BE ARRANGED		STAFF	
597	INDEPENDENT STUDY	01.0 TO 12.0 CR		
	PREREQ CONSENT OF DEPARTMENT			
1	TO BE ARRANGED			
599	THESIS	03.0 TO 09.0 CR		
1	TO BE ARRANGED			
600	DISSERTATION	01.0 TO 48.0 CR		
1	TO BE ARRANGED			

Health Education (H ED)

302S	DRIVER-TRAFF SAFETY	04.0 CR		
	PREREQ A VALID DRIVERS LICENSE			
1	08.00 M T TH F	L-APS 136	BRIDGES A FRANK	
305	PRIN-FOUND H ED	04.0 CR		
1	10.00 M T W T H	ARENA 123	RUSSELL ROBERT D	
311	CHILD DEVELOPMENT	04.0 CR		
	PREREQ .			
1	09.00 M T T H	PHY SC 118	RICHARDSON	
	09.00 W	AG 148		
313S	INTRO SAFETY EDUC	04.0 CR		
	PREREQ .			
1	09.00 M T T H F	L-APS 136	BRIDGES A FRANK	
334S	FIRST AID	04.0 CR		
	PREREQ .			
1	11.00 M W T H F	ARENA 119	HARRIS EILEEN M	
2	12.00 M W T H F	ARENA 119	HARRIS EILEEN M	
3	05.45-07.25 M T H	ARENA 119	LINDAUER LARRY	
4	05.45-07.25 T T H	ARENA 123	RITZEL DALE D	

350	METH MAT SCH HEALT			04.0 CR	
	PREREQ .				
1	02.00	TWTH	ARENA	119	CASEY LESLIE R
355	INTRO TO PUB HEALTH			04.0 CR	
	PREREQ .				
1	04.00-05.40	M W	ARENA	119	MILLER LESLIE R
356	PUBLIC HEALTH II			05.0 CR	
	PREREQ .				
1	TO BE ARRANGED				RICHARDSON
401	DIS PREVENT + CONTR			03.0 CR	
1	06.30-09.00 PM	W	ARENA	121	
405	SEX EDUC IN SCHOOLS			04.0 CR	
	PREREQ JR, SR, CR GRAD STATUS				
1	09.00	MTWTH	ARENA	121	BOYDSTON DONALD N
442S	DRIV + TRAF SAFE ED			04.0 CR	
	PREREQ HED 302S				
1	08.00	MTWTH	L-APS	136	RITZEL DALE O
443S	DRIV + TRAF SAFE ED			04.0 CR	
	PREREQ HED 442S				
1	06.30-09.00 PM	W	L-APS	136	BRIDGES A FRANK
460	SCH HEALTH PROGRAMS			04.0 CR	
	PREREQ				
1	09.00	MTWTH	ARENA	119	VAUGHAN ANDREW T
488	ED ASP ENVIRON SAN			04.0 CR	
	PREREQ H ED 100,205,OR EQUIVALENT				
1	TO BE ARRANGED				GRISSEM DEWARD K
489	INTRO-VITAL STATIS			04.0 CR	
	PREREQ MATH 120 CR EQUIVALENT				
1	03.00-05.00	TH	ARENA	123	CASEY LESLIE R
490	FLD WK SCH COMM HEA			02.0 TO 08.0 CR	
	PREREQ RESTRICTED TO MAJORS IN DEPT				
1	TO BE ARRANGED				RICHARDSON CHARLES
491	H TCH-SCHOOL + COMM			04.0 CR	
	PREREQ H ED 305,471 OR CONSENT OF INSTRUCTOR				
1	06.30-09.00 PM	T	ARENA	119	VINCENT RAYMOND J
510	CONST CURR-HED+SAFE			04.0 CR	
1	06.30-09.00 PM	T	ARENA	121	RUSSELL ROBERT D
520	SPEC PROJ-HED + SAF			04.0 TO 06.0 CR	
1	TO BE ARRANGED				BOYDSTON
533B	HUMAN CONSERVATION			04.0 CR	
	PREREQ H ED 533				
1	06.30-09.00 PM	TH	ARENA	121	RICHARDSON + GRISSEM
536	PROF PREP IN H ED			04.0 CR	
1	06.30-09.00 PM	W	ARENA	119	LEFEVRE JOHN R
597A	SEM IN HED + SAFETY			01.0 CR	
1	TO BE ARRANGED				BOYDSTON DONALD N
597B	SEM IN HED + SAFETY			01.0 CR	
1	TO BE ARRANGED				BOYDSTON DONALD N
597C	SEM IN HED + SAFETY			01.0 CR	
1	TO BE ARRANGED				BOYDSTON DONALD N
599	THESIS			03.0 TO 09.0 CR	
1	TO BE ARRANGED				BOYDSTON DONALD N
600	DISSERTATION			01.0 TO 48.0 CR	
	PREREQ MUST MEET MINIMUM REQ OF 36HRS FOR PH D DEGREE				
1	TO BE ARRANGED				BOYDSTON DONALD N

Higher Education (HIED)

402	PRIN COL STU PERSON			02.0 CR	
1	06.30-08.00 PM	W	WHAM	302	ZIMMERMAN ELWYN
512	HIED-SELECT NATIONS			04.0 CR	
1	06.30-09.15 PM	M	WHAM	312	CALDWELL OLIVER J
513	ORGAN + ADMIN-HIED			04.0 CR	
1	11.00	MTW F	WHAM	329	DAVIS I CLARK
522	READINGS			01.0 TO 12.0 CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	TO BE ARRANGED				TOLLE DONALD J
2	TO BE ARRANGED				GRAHAM JACK W
3	TO BE ARRANGED				MOORE MALVIN JR
523A	INTERN-COLL TEACH			01.0 TO 12.0 CR	
	PREREQ CONSENT OF DEPT				
1	TO BE ARRANGED				TOLLE + HILL

523B	INTERN-STUDENT PERS	01.0 TO 12.0 CR			
	PREREQ CONSENT OF DEPT				
1	TO BE ARRANGED				GRAHAM JACK W
523C	INTERN-COLLEGE ADM	01.0 TO 12.0 CR			
	PREREQ CONSENT OF DEPT				
1	TO BE ARRANGED				MOORE MALVIN JR
523D	INTERNSHIP	01.0 TO 12.0 CR			
	PREREQ CONSENT OF DEPT				
1	TO BE ARRANGED				MCKEEFERY WILLIAM J
524	INDIVIDUAL STUDY	02.0 TO 06.0 CR			
	PREREQ CONSENT OF INSTRUCTOR				
1	TO BE ARRANGED				TOLLE DONALD J
2	TO BE ARRANGED				GRAHAM JACK W
3	TO BE ARRANGED				MOORE MALVIN JR
535C	STUDENT PER GRUP W	02.0 CR			
1	10.00-11.50 T	WHAM 319			GRAHAM JACK W
535D	NON-ACADEM PERS MGT	02.0 CR			
1	06.30-08.30 PM M	WHAM 301A			SAPPENFIELD
535J	TECHNICAL INSTITUTE	02.0 CR			
1	09.00-10.50 S	WHAM 203			SIMON ERNEST J
551	CURR DES + POLICY	04.0 CR			
1	06.30-09.15 PM TH	WHAM 326			MOORE MALVIN JR
565	COMMUNIT-JR COLLEGE	04.0 CR			
1	04.00-05.40 M W	WHAM 326			TOLLE DONALD J
589	ADVANCED RESEARCH	04.0 TO 06.0 CR			
	PREREQ CONSENT OF INSTRUCTOR				
1	TO BE ARRANGED				ROBINSON, DONALD
599	THESIS	01.0 TO 09.0 CR			
1	TO BE ARRANGED				
600	DISSERTATION	01.0 TO 48.0 CR			
	PREREQ MINIMUM OF 36 HRS TO BE EARNED FOR DOCTOR OF PHIL				
1	TO BE ARRANGED				

History (HIST)

304B	ANC WORLD-GREECE	03.0 CR			
1	04.00 M WTH	0861 101			BREHM
315B	INTEL HIST-WEST WLD	03.0 CR			
1	09.00 MT TH	LAWSON 131			VYVERBERG
322B	ENG HIST- 1603-1815	04.0 CR			
1	11.00 MT THF	0861 101			CHERRY GEORGE L
332B	MEDIEVAL HISTORY	03.0 CR			
1	02.00 M WTH	UNIT 6 101			BREHM DONALD L
333A	EARLY MODERN EUROPE	03.0 CR			
1	10.00 M W F	0861 101			MUELLER
333B	EUR HIST-18+19 CENT	03.0 CR			
1	12.00 T THF	UNIT 7 101			ZUCKER STANLEY
349B	AFRICA COLONIAL PRD	03.0 CR			
1	10.00 T TH	WHAM 308			BERBERICH CHARLES
	10.00 F	WHAM 302			
352A	LATIN AMER-COLONIAL	03.0 CR			
1	03.00 M W F	UNIT 6 101			GOLD
352B	LATIN AMER-INDEPEND	03.0 CR			
1	12.00 MT TH	UNIT 2 101			WERLICH DAVID P
401B	HIST OF SOUTH	03.0 CR			
1	01.00 M W F	0861 102			MURPHY
403B	AMER ECONOMIC HIST	03.0 CR			
1	TO BE ARRANGED				CONRAD
409B	US CONSTITUT HIST	03.0 CR			
1	09.00 T THF	UNIT 2 101			CARRCTT MONTGOMERY B
410	SPECIAL READINGS	02.0 TO 05.0 CR			
1	TO BE ARRANGED				
411B	U S SOC-INT-19TH C	03.0 CR			
1	11.00 M W	UNIT 6 101			ADAMS GEORGE W
	11.00 F	UNIT 7 101			
414B	INT-HIST EUR-19TH C	03.0 CR			
1	10.00 MT TH	UNIT 5 101			VYVERBERG HENRY S
416B	MOD EUR REFORMATION	03.0 CR			
1	12.00 M W F	UNIT 9 101			MUELLER
417B	ADV ENG HIST	03.0 CR			
1	09.00 M W F	UNIT 9 101			CHERRY GEORGE L
425B	AMER COLONIAL HIST	03.0 CR			
1	12.00 MT TH	UNIT 8 101			BATINSKI MICHAEL C

428	AGE OF JACKSON		03.0 CR	
1	11.00	MT TH	UNIT 1 101	FLADELAND
434B	SOC EUR 1870-1914		03.0 CR	
1	01.00	T THF	UNIT 9 101	ZUCKER STANLEY
440B	AMER DIPL 1860-1920		03.0 CR	
1	02.00	T TH	AG 152	WARREN
	02.00	F	UNIT 6 101	
442B	THE WEST-TRANS ALLE		03.0 CR	
1	09.00	M W F	UNIT 7 101	CLIFFORD
448A	HIST OF S.EAST ASIA		03.0 CR	
1	10.00	MT TH	UNIT 6 101	FENDERSHOT
449A	ADV AFRICAN HISTORY		03.0 CR	
	PREREQ 1 QTR HIST 349, CONSENT OF INSTR. OR GRAD STAND.			
1	12.00	T THF	UNIT 6 101	BERBERICH
451	HISTORIOGRAPHY		03.0 CR	
1	01.00	M WTH	UNIT 6 101	AMMCN
452	RESEARCH + THESIS		03.0 CR	
1	06.00-07.25 PM	M W	UNIT 4 101	BREHM
463B	HISTORY OF FRANCE		03.0 CR	
	PREREQ 6 HRS OF 300 LEVEL SOC SCI OR CONSENT OF DEPARTMENT			
1	02.00	M W F	UNIT 9 101	FALL
464B	HIST GER SINCE 1815		03.0 CR	
1	11.00	T THF	UNIT 6 101	DETWILER DONALD S
465B	REV RUSS SINCE 1905		03.0 CR	
1	03.00	M W F	UNIT 7 101	MC FARLIN
471B	MEXICO--20TH CEN		03.0 CR	
1	01.00	M W F	UNIT 8 101	GOLD
473B	20TH CENT CARIBBEAN		03.0 CR	
1	10.00	M W F	UNIT 7 101	GARDINER
498B	RESEARCH HON THESIS		03.0 CR	
1	TO BE ARRANGED			
500A	SEMINAR-AMER HIST		05.0 CR	
1	10.00-11.50	T TH	UNIT 4 101	CONRAD
2	07.30-09.20 PM	M W	UNIT 4 101	MURPHY
510	READING IN HISTORY		02.0 TO 12.0 CR	
	PREREQ CONSENT OF DEPARTMENT			
1	TO BE ARRANGED			
514	STUDIES ASIAN HIST		03.0 CR	
	PREREQ CONSENT OF DEPT			
1	02.00-05.00	T	UNIT 4 101	KUD
516A	SEM IN EUROPE HIST		03.0 CR	
	PREREQ PERMISSION OF INSTRUCTOR			
1	03.00-04.50	M W	H EC 122A	HALL
519A	AGE OF JEFFERSON		03.0 CR	
1	02.00-05.00	W	UNIT 4 101	AMMCN
520A	SEC AND REF		03.0 CR	
1	01.00-04.00	T	H EC 122A	FLADELAND
525A	SEM AMER COLON HIST		03.0 CR	
1	01.00-04.00	TH	H EC 122A	BATINSKI
575C	STUDIES-LATIN AMER		03.0 CR	
1	01.00-04.00	TH	UNIT 4 101	WERLICH
599	THESIS		01.0 TO 09.0 CR	
1	TO BE ARRANGED			
600	DISSERTATION		01.0 TO 48.0 CR	
1	TO BE ARRANGED			

Home and Family (H & F)

227	FAMILY LIVING		03.0 CR	
1	02.00	M W	H EC 140B	CARPENTER GEORGE R
	02.00	F	H EC 203	CARPENTER GEORGE R
2	02.00	M W	H EC 140B	CARPENTER
	02.00	TH	H EC 203	
237	CHILD DEVELOPMENT		03.0 CR	
1	09.00	M W	H EC 140B	ZUNICH MICHAEL
	09.00	F	H EC 120	
2	09.00	M W	H EC 140B	ZUNICH MICHAEL
	09.00	T	H EC 203	ZUNICH MICHAEL
3	09.00	M W	H EC 140B	ZUNICH MICHAEL
	09.00	TH	H EC 203	
4	09.00	M W	H EC 140B	ZUNICH
	09.00	S	H EC 203	

5	09.00	M W	H EC	140B	ZUNICH	
	09.00	TH	H EC	120		
300	HOME EC FOR MEN			03.0	CR	
1	01.00	M W	H EC	140B	HEISLER ARLENE	
	01.00	F	H EC	5	HEISLER ARLENE	
2	01.00	M W	H EC	140B	HEISLER ARLENE	
	01.00	TH	H EC	5	HEISLER ARLENE	
3	01.00	M W	H EC	140B	HEISLER ARLENE	
	01.00	T	H EC	5		
4	01.00	M W	H EC	140B	HEISLER ARLENE	
	02.00	TH	H EC	102		
5	01.00	M W	H EC	140B		
	02.00	T	H C	202		
301	H ARTS + SOC USAGE			03.0	CR	
1	10.00	M W	H EC	203	HEISLER ARLENE	
	10.00	F	H EC	5		
2	10.00	M W	H EC	203	HEISLER	
	10.00	TH	H EC	5		
324	EQUIPMENT			03.0	CR	
1	02.00	T TH	H EC	5	MALCNE THELMA JEAN	
	11.00-12.50	F	H EC	5	MALONE THELMA JEAN	
2	02.00	T TH	H EC	5	MALCNE THELMA JEAN	
	08.00-09.50	TH	H EC	5	MALCNE THELMA JEAN	
3	02.00	M W	H EC	5	MALCNE	
	03.00-04.50	TH	H EC	5	MALCNE	
4	02.00	M W	H EC	5	MALONE	
	08.00-09.50	T	H EC	5	MALCNE THELMA JEAN	
331	MGT OF FAMILY RES			03.0	CR	
1	12.00	T TH	H EC	203	CRAIG	
	12.00	F	H EC	140B		
332	HOME MGT RESIDENCE			04.0	CR	
	PREREQ H+F 227,331					
1	TO BE ARRANGED					MALCNE THELMA JEAN
341	CONSUMER PROBLEMS			04.0	CR	
1	08.00	MTW	H EC	140B	TROELSTRUP	
	08.00	TH	H EC	203	TROELSTRUP	
2	08.00	MTW	H EC	140B	TROELSTRUP	
	08.00	F	H EC	203	TROELSTRUP	
3	08.00	MTW	H EC	140B	TROELSTRUP	
	09.00	TH	H EC	203	TROELSTRUP	
345A	CHILD DEV PRACTICUM			02.0	CR	
1	04.00	T	H EC	120	PONTON MELVA F	
	PLUS TWO HRS TBA					
345B	CHILD DEV PRACTICUM			03.0	CR	
1	04.00	W	H EC	120	PONTON MELVA F	
	PLUS THREE CONSECUTIVE HRS TBA					
366	FAMILY DEVELOPMENT			03.0	CR	
	PREREQ 227 OR GSB 341					
1	11.00	M W F	H EC	203	CARPENTER GEORGE R	
445	ADM PRE-SCHOOL PROG			04.0	CR	
	PREREQ 345B OR CONSENT OF INSTRUCTOR					
1	06.00-08.30 PM	T	H EC	120	ZUNICH MICHAEL	
471	FIELD EXPERIENCE			02.0 TO 06.0	CR	
	PREREQ CONSENT OF DEPARTMENTAL CHAIRMAN					
1	TO BE ARRANGED					JOHNSTON
481	READINGS			02.0 TO 06.0	CR	
	PREREQ CONSENT OF INSTRUCTOR AND CHAIRMAN					
1	TO BE ARRANGED					
500	RESEARCH METHODS			04.0	CR	
	PREREQ GUID 422B CR MATH 420 OR CONSENT OF INSTR					
1	06.30-09.00 PM	M	H EC	120	JOHNSTON BETTY JANE	
550	ADV HOME MANAGEMENT			04.0	CR	
	PREREQ 331 AND 332 OR EQUIVALENT					
1	06.30-09.00 PM	TH	H EC	5	CRAIG	
572	SPECIAL PROBLEMS			02.0 TO 08.0	CR	
1	TO BE ARRANGED					
599	THESIS			02.0 TO 09.0	CR	
1	TO BE ARRANGED					

Home Economics (H EC)

305	HONORS SEMINAR	02.0 TO 06.0 CR	
1	TO BE ARRANGED		KEENAN
387	SPEC PROB-HONORS	02.0 TO 06.0 CR	
1	TO BE ARRANGED		
388	RES + INVESTIGATION	02.0 TO 08.0 CR	
1	TO BE ARRANGED		

Home Economics Education (HEED)

309A	PROGRAM PLANNING	03.0 CR	
	PREREQ GUID 305, S ED 310		
1	09.00 M W F H EC 203		
310	EVAL AND ADULT EDUC	04.0 CR	
	PREREQ 309 AND S ED 352 CONCURRENTLY		
1	TO BE ARRANGED		
313	SPECIAL PROBLEMS	02.0 TO 04.0 CR	
	PREREQ 309		
1	TO BE ARRANGED		
370	HIST DEV PRIN EXTEN	05.0 CR	
1	TO BE ARRANGED		
481	READINGS	02.0 TO 06.0 CR	
	PREREQ CONSENT CF INSTR AND CHAIRMAN OF DEPARTMENT		
1	TO BE ARRANGED		
485	PRIN-PHIL VO TEC ED	03.0 CR	
	PREREQ STUDENT TEACHING OR CONSENT OF DEPARTMENT		
1	06.00-08.30 PM M TECH D 130		KEENAN DOROTHY M
	CROSSLISTED WITH TIEC 485		
506	EVAL PROCED IN H EC	04.0 CR	
1	06.00-08.30 PM TH H EC 120		FULTS ANNA CAROL
510A	PRACTICUM IN SUPERV	01.0 TO 04.0 CR	
	PREREQ 510 OR EDAP 456 OR CONSENT OF INSTRUCTOR		
1	TO BE ARRANGED		
515	TRENDS AND ISSUES	04.0 CR	
1	08.30-11.30 S H EC 120		KEENAN DOROTHY M
572	SPECIAL PROBLEMS	02.0 TO 08.0 CR	
1	TO BE ARRANGED		
573	SEM-RES IN HOME EC	01.0 CR	
	PREREQ CONSENT CF INSTRUCTOR		
1	TO BE ARRANGED		FULTS
599	THESIS	02.0 TO 09.0 CR	
1	TO BE ARRANGED		
600	DISSERTATION	03.0 TO 15.0 CR	
1	TO BE ARRANGED		FULTS ANNA CAROL

Industrial Technology (IT)

100	ORIENTATION	02.0 CR	
1	04.00 T TH TECH A 111		
	CROSS-LISTED IN SCHOOL OF TECHNOLOGY		
300B	PLASTIC PROCESS	04.0 CR	
	PREREQ 300A		
1	12.00 MT THF TECH A 222		
304B	ARCHITECTURAL DES	03.0 CR	
	PREREQ 304A		
1	06.00 PM M W TECH A 111		
	07.00-08.50 PM M W TECH A 219		
2	06.00 PM M W TECH A 111		
	07.00-08.50 PM M W TECH A 221		
3	06.00 PM M W TECH A 111		
	07.00-08.50 PM M W TECH A 209		
305B	DESIGN ILLUSTRATION	03.0 CR	
	PREREQ E T 102B		
1	01.00 M W TECH A 222		
	08.00-09.50 S TECH A 307		
2	01.00 M W TECH A 222		
	10.00-11.50 S TECH A 307		
306B	INDUSTRIAL DESIGN	03.0 CR	
	PREREQ I T 305A		
1	10.00 M W TECH A 307		
	10.00-11.50 F TECH A 307		

314	METAL CASTING PRCC	03.0 CR		
	PREREQ MATH 111A CR EQUIVALENT			
1	08.00 M W	PHY SC 116		
	06.00-08.00 PM T	TECH D 148		
2	08.00 M W	PHY SC 116		
	01.00-02.50 T	TECH D 148		
3	08.00 M W	PHY SC 116		
	03.00-04.50 W	TECH D 148		
319	INDUSTRIAL INTERN	03.0 TO 24.0 CR		
	PREREQ CONSENT OF INSTRUCTOR			
1	TO BE ARRANGED			
325A	METAL REMOV PROCESS	03.0 CR		
	PREREQ MATH 111A			
1	09.00 T TH	TECH A 220		
	03.00-04.50 T	TECH D 148		
2	09.00 T TH	TECH A 220		
	10.00-11.50 T	TECH D 148		
3	09.00 T TH	TECH A 220		
	10.00-11.50 TH	TECH D 148		
325B	METAL REMOV PROCESS	03.0 CR		
	PREREQ MATH 111A			
1	02.00 T TH	TECH D 131		
	03.00-04.50 TH	TECH D 148		
2	02.00 T TH	TECH D 131		
	01.00-02.50 F	TECH D 148		
330	METAL FORMING PROC	03.0 CR		
	PREREQ MATH 111A			
1	09.00 M W	TECH A 111		
	08.00-09.50 F	TECH D 148		
2	09.00 M W	TECH A 111		
	03.00-04.50 F	TECH D 148		
3	09.00 M W	TECH A 111		
	06.00-08.00 PM TH	TECH D 148		
4	09.00 M W	TECH A 111		
	10.00-11.50 W	TECH D 148		
343B	ELECT ELECTRONICS	03.0 CR		
1	04.00 M W F	TECH A 122		
358A	MATERIALS HANDLING	03.0 CR		
1	03.00 M W F	TECH A 222		
365	QUALITY CONTROL	04.0 CR		
	PREREQ JUNIOR STANDING			
1	10.00 M T THF	TECH A 222		

Instructional Materials (I M)

308	INTRO TO CATALOGING	04.0 CR		
1	09.00 TWTHF	PULL 310	MATTHEWS ELIZABETH W	
2	10.00 TWTHF	PULL 310	MATTHEWS ELIZABETH W	
400	LIB RES METHODS	02.0 CR		
1	02.00 W F	PULL 320	DALE	
405	LIB MAT FOR CHILD	04.0 CR		
	PREREQ OPEN TO JUNIORS WITH CONSENT OF INSTRUCTOR			
1	08.00 MTWTH	PULL 320	FLETCHER KATHLEEN G	
406	ADOL LIB MATERIALS	04.0 CR		
	PREREQ OPEN TO JUNIORS WITH CONSENT OF INSTRUCTOR			
1	10.00 MTWTH	PULL 320	FLETCHER KATHLEEN G	
407	BASIC REF SOURCES	04.0 CR		
1	12.00 MTWTH	PULL 320	CCX	
413	CAT OF NON-BOOK MAT	04.0 CR		
	PREREQ 308			
1	08.00 MTWTH	PULL 310	CCX COROTHY J	
417	A-V METH IN EDUC	04.0 CR		
1	08.00 MTWTH	LAWSON 121		
2	09.00 MTWTH	PULL 318	INGLIS DON	
3	09.00-11.30 S	PULL 318		
4	10.00 MTWTH	LAWSON 121	PLANINC	
5	11.00 MTWTH	PULL 318	INGLIS DON	
6	12.00 MTWTH	PULL 318	INGLIS	
7	01.00 MTWTH	PULL 318		
8	02.00 MTWTH	PULL 318	EDWARDS SETH	
9	03.00 TWTHF	PULL 318	MOORE	

10	04.00	TWTHF	PULL	318	MCORE
11	05.45-07.30	T TH	PULL	318	
12	07.35-09.00 PM	T TH	PULL	318	
420	SCH LIB ACT-PRACT		04.0 CR		
	PREREQ 308, 403, 405, CR 406, 407				
1	11.00	MTWTH	PULL	320	FLETCHER
445	PREP TEACH-MADE MAT		04.0 CR		
	PREREQ 417 CR CONSENT OF INSTRUCTOR				
1	08.00-09.50	MTWTH	PULL	325	EDWARDS SETH J
2	11.00-12.50	MTWTH	PULL	325	EDWARDS
457	RAD TELEV IN CLRM		04.0 CR		
1	08.00	MTWTH	PULL	318	FLANINC
470	PROGRAM AUTO INST		04.0 CR		
1	01.00	MTWTH	PULL	310	WENDT PAUL R
506	LIT OF SOC SCIENCES		03.0 CR		
	PREREQ IM 407				
1	11.00	TW F	PULL	310	
523	SEMINAR-JR COL LIB		04.0 CR		
1	06.30-09.00 PM	W	PULL	320	CALE DORIS CRUGER
546	INTEG A-V MATERIALS		04.0 CR		
	PREREQ 417, CCNSENT OF INSTRUCTOR				
1	06.30-09.00 PM	M	PULL	310	BUTTS GORDON K
554	ADMIN INST MAT CEN		04.0 CR		
	PREREQ 403				
1	03.00	MTWTH	PULL	310	WENDT
576	PROB INST MAT		02.0 TO 08.0 CR		
	PREREQ CONSENT OF INSTRUCTOR				
1	TO BE ARRANGED				
599	THESIS		05.0 TO 09.0 CR		
1	TO BE ARRANGED				
600	DISSERTATION		01.0 TO 48.0 CR		
1	TO BE ARRANGED				

Journalism (JRNL)

101	INTRO TO JOURN I		03.0 CR		
1	08.00	M W F	LAWSON 231		CLAYTON CHARLES C
102	INTRO TO JOURN II		03.0 CR		
1	11.00	M W F	LAWSON 101		CLAYTON CHARLES C
203	THE NEWS		03.0 CR		
1	08.00	T TH	0834 101		MATHESON JOHN M
	11.00-12.50	M	0834 101		MATHESON JOHN M
2	11.00	T TH	0834 101		MATHESON JOHN M
	01.00-02.50	F	0834 101		MATHESON JOHN M
3	12.00	T TH	0834 101		MATHESON JOHN M
	01.00-02.50	W	0834 101		MATHESON JOHN M
301	NEWSWRIT EDIT I		03.0 CR		
1	09.00	T	LAWSON 231		GROTTA GERALD L
2	09.00	T	LAWSON 231		GROTTA GERALD L
3	09.00	T	LAWSON 231		GROTTA GERALD L
4	09.00	T	LAWSON 231		GROTTA GERALD L
	EACH SECT OF 301 HAS ADDITIONAL HRS		TBA		
302	NEWSWRIT EDIT II		03.0 CR		
1	08.00	MTWTH	0869 101		
2	10.00	M F	0869 101		
	12.00	TH	0869 101		
3	01.00	MT TH	0834 101		
	12.00	W	0834 101		
303	NEWS + EDIT III		03.0 CR		
1	11.00	W	LS I 323		GRANATO L
2	11.00	W	LS I 323		GRANATO L
	EACH SECT OF 303 HAS ADDED HRS		TBA		
310	RADIO TV NEWS		03.0 CR		
	PREREQ JRNL 103, 201, 202 AND 303				
1	01.00	M W F	COMM 1016		
330	EDITORIAL WRITING		03.0 CR		
1	10.00	T THF	0834 101		LAWHCRNE CLIFTON O
345	HIST OF JOURN		03.0 CR		
1	11.00	M W	LAWSON 221		FORD JAMES
	11.00	F	TECH A 111		
351	COMM NP MANAGEMENT		03.0 CR		
1	03.00	M W F	AG 220		RICE W MANION
370	PRIN OF ADVERTISING		03.0 CR		
	PREREQ ECON 205				

1	09.00	M W	AG	166	ROCHE BRUCE
	09.00	F	TECH A	111	ROCHE BRUCE
371	ADVERTISING SALES		03.0	CR	
	PREREQ 370				
1	03.00	M W F	0834	101	EPERHEIMER
372	AD COPY LAYOUT PROD		05.0	CR	
1	04.00	M W F	0869	101	ROCHE BRUCE
	03.00-04.50	T TH	0869	101	ROCHE BRUCE
373	ADV MEDIA + MARKETS		03.0	CR	
	PREREQ 370				
1	11.00	M W F	PIERCE	130	
374	ADV POL AND PROBS		03.0	CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	10.00	T TH	TECH A	208	
	10.00	F	AG	218	
2	02.00	M W F	AG	218	
383A	NP PROD MANAGEMENT		03.0	CR	
1	08.00	M W F	0834	101	BROWN GEORGE CURTIS
2	09.00	T TH S	0834	101	BROWN GEORGE CURTIS
383B	NP PROD MANAGEMENT		03.0	CR	
1	09.00	M W F	0869	101	
2	12.00	M W F	0869	101	
389	BASIC RES IN JRNL		03.0	CR	
	PREREQ SENIOR STANDING				
1	08.00	M W F	AG	218	ATWCCD
390	ADVANCED REPORTING		03.0	CR	
1	02.00	T THF	0869	101	STARCK KENNETH
391	FEATURE WRITING		03.0	CR	
1	11.00	T TH	0869	101	STARCK KENNETH
398	MAGAZ PROD + LAYOUT		03.0	CR	
1	10.00	T TH	0869	101	FORD JAMES L C
	01.00-02.50	M	0869	101	FORD JAMES L C
2	10.00	T TH	0869	101	FORD JAMES L C
	01.00-02.50	W	0869	101	FORD JAMES L C
399	SENIOR SEMINAR		01.0	CR	
1	12.00	T	AG	150	FRAZER MARY KING
421	SCHOOL PUBLICATIONS		04.0	CR	
1	01.00	MTWTH	AG	218	RICE W MANION
431	PUBLIC RELATIONS		03.0	CR	
1	03.00	M W F	ARENA	123	LAWHERNE CLIFTON O
432	FOUND MASS COMM THE		03.0	CR	
1	01.00-02.50	T	COMM	1022	ATWCCD L ERWIN
	01.00-02.50	TH	LS I	205	
442	LAW OF JOURNALISM		03.0	CR	
1	11.00	M W F	AG	218	
449	PRACTICUM		02.0 TO 08.0	CR	
1	TO BE ARRANGED				LONG HOWARD RUSK
495	BOOK REVIEWING		03.0	CR	
1	02.00	T TH	LIB	219	FORD JAMES L C
530	SEM- PRESS FREEDOM		02.0	CR	
1	10.00-11.50	TH	LIB	108	MCCY RALPH E
533	RESEARCH PROB-JRNL		01.0 TO 04.0	CR	
1	TO BE ARRANGED				RUCKER BRYCE W
590	SEMINAR-JRNL HIST		03.0	CR	
1	03.00-04.50	T TH	TECH B	20	HART JIM ALLEE
595	GRADUATE SEMINAR		00.0	CR	
1	04.30-05.20	F	AG	218	RUCKER BRYCE W
599	THESIS		01.0 TO 08.0	CR	
1	TO BE ARRANGED				RUCKER BRYCE W
600	DISSERTATION		01.0 TO 16.0	CR	
1	TO BE ARRANGED				RUCKER BRYCE W

Liberal Arts and Sciences (LA S)

300	INDIV INTERDIS READ	01.0 TO 04.0	CR	
1	TO BE ARRANGED			
301	INDIV INTERDISC RES	01.0 TO 04.0	CR	
1	TO BE ARRANGED			
302	IND INTERDIS F STUD	01.0 TO 04.0	CR	
1	TO BE ARRANGED			

Management (MGT)

170	INTR TO BUS ADMIN	04.0	CR	
	PREREQ FRESHMEN AND SOPHOMORES ONLY			

1	08.00	M W	0875	101	BEDWELL
	08.00	T THF	0861	101	
271	BUSINESS WRITING		04.0	CR	
	PREREQ	GSD 101			
1	10.00	M	H EC	120	BATEMAN
	10.00	T THF	H EC	203	
301	MGT + SUPERVISION		04.0	CR	
	PREREQ	GSB 201C CR EQUIVALENT, OR PER MISSION OF INSTRUCTOR			
1	08.00-09.50	W	WHAM	312	
	08.00-09.50	F	WHAM	317	
340	BUS-ORG AND MGT		04.0	CR	
	PREREQ	GSB 201B AND C, OR EQUIVALENT-JR STANDING OR CONSENT			
1	08.00	MTWTHF	LS I	133	MADDEN
2	12.00	MTWTHF	LAWSON	141	MADDEN
345	INF SYST-COMP FUND		04.0	CR	
	PREREQ	ACCT 261, MGT 340 OR FIN 320 OR MKT 301, CR CONSENT			
1	01.00-02.50	T TH	CL	109	BUSSEM
361	RESEARCH IN BUS ADM		04.0	CR	
	PREREQ	MGT 340, GSD 102, 103, GSD 110 OR EQUIV CR CONSENT			
1	08.00-09.50	T TH	AG	220	LIPP
2	10.00-11.50	T TH	CL	24	BUSSEM
3	12.00-01.50	T TH	WHAM	210	LIPP
385	PERSONNEL MGT		04.0	CR	
	PREREQ	MGT 340, GSD 110 OR EQUIVALENT, OR CONSENT OF INSTR			
1	10.00-11.50	W F	AG	168	
430	ORGANIZ BEHAVIOR I		04.0	CR	
	PREREQ	MGT 340, GSD 110 OR EQUIVALENT, OR CONSENT OF INSTR			
1	10.00-11.50	W F	AG	152	HUNT
440	THE MGT PROCESS		04.0	CR	
	PREREQ	MBA STUDENT			
1	TO BE ARRANGED				
451	METH OF QUANT ANAL		04.0	CR	
	PREREQ	MBA STUDENT OR CONSENT OF INSTRUCTOR			
1	01.00-02.50	T TH	UNIT 7	101	SCHELLENBERGER
460	MEAS-WAGE + SAL CON		04.0	CR	
	PREREQ	385			
1	01.00-02.50	M	AG	222	BISHOP
	01.00-02.50	W	WHAM	319	
474	MGT RESP IN SOCIETY		04.0	CR	
	PREREQ	MGT 340, SR STANDING OR CONSENT OF INSTR			
1	12.00-01.50	M W	UNIT 1	101	HOLLINGSWORTH
479	PROBS BUS AND ECON		04.0	CR	
	PREREQ	340, ECON 215, 308 OR 408 OR EQUIV, MKTG 301 OR EQ.			
1	09.00-10.50	T TH	FELTS	130	SANDERS
2	03.00-04.50	T TH	AG	148	SANDERS
480	REC PROB-LABOR LAW		04.0	CR	
	PREREQ	FIN 371 OR ECON 310 OR GOVT 395, OR CONSENT OF INST			
1	10.00-11.50	M F	CL	24	
481	ADMINISTRATIVE POL		04.0	CR	
	PREREQ	MGT 340, FIN 320, MKTG 301 OR EQUIV, + SR STANDING			
1	08.00-09.50	T TH	BAILEY	130	
2	08.00-09.50	M W	AG	188	
3	11.00-12.50	T TH	AG	220	
4	11.00-12.50	W	WHAM	321	
	11.00-12.50	F	CL	109	
5	01.00-02.50	M	AG	148	
	01.00-02.50	F	AG	220	
483	ADV PROD MGT		04.0	CR	
	PREREQ	380			
1	03.00-04.50	T TH	AG	150	LAUGHUNN
485	PROBS PERS MGT		04.0	CR	
	PREREQ	MGT 385, ECON 308 OR 408, MGT 361			

1 03.00-04.50 M W LAWSON 221

Marketing (MKTG)

301 MKTG FUNDAMENTALS 04.0 CR
PREREQ ECON 214, ACCT 251A

1	11.00	MTWTH	AG	156
2	03.00	M W	LAWSON	161
	03.00	T TH	WHAM	105

335 INTERNATIONAL MKTG 04.0 CR
PREREQ MKTG 301

1	11.00-12.50	T TH	AG	168
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341 TRANSPORTATION 04.0 CR
PREREQ MKTG 301, ECON 215

1	08.00	MT THF	CL	109
2	03.00-04.50	T TH	WHAM	205

363 PROMOTIONAL CONCEPT 04.0 CR
PREREQ MKTG 301

1	09.00	M W	H EC	201
	09.00	T TH	WHAM	112
2	11.00	MTWTH	CL	109
3	01.00	MTWTH	AG	224
4	04.00	TWTHF	MAIN	144

390 MKTG RES + ANAL 04.0 CR
PREREQ MKTG 301, ONE COURSE IN STATISTICS

1	09.00	TWTHF	H C	202
2	11.00	TWTHF	UNIT 3	101
3	02.00	T THF	UNIT11	101
	02.00	W	UNIT12	101

401 PROB IN RETAILING 04.0 CR
PREREQ MKTG 363

1	01.00	M W	COMM	1021
	01.00	T TH	UNIT 3	101

438 SALES MANAGEMENT 04.0 CR
PREREQ MKTG 363

1	10.00	MTWTH	WHAM	202
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439 IND MARKETING MGMT 04.0 CR
PREREQ MKTG 363

1	03.00	MTWTH	COMM	1022
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452 PHYSICAL DIST MGT 04.0 CR
PREREQ MKTG 301, ECON 215

1	08.00	MTWTH	H C	202
2	10.00	MTWTH	UNIT 1	101

463 ADVERTISING MANAG 04.0 CR
PREREQ MKTG 363, MKTG 390

1	10.00-11.50	M	AG	168
	10.00-11.50	W	CL	24
2	02.00-03.50	T TH	AG	220

493 MARKETING POLICIES 04.0 CR
PREREQ ACCT 261, MKTG 363, 390, PLJS 4HRS IN MKTG, SENIOR

1	03.00-04.50	M W	CL	24
2	03.00-04.50	T TH	WHAM	303

499 UNDERGRAD SEM-MKTG 04.0 CR
PREREQ BY INVITATION - 16 HOURS OF MARKETING

1	02.00-03.50	T TH	CL	25
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NOVICK JEHIEL

Mathematics (MATH)

111A COL ALGEBRA TRIG 05.0 CR
PREREQ GSD 106 OR HS EQUIV

1	08.00	TWTHFS	UNIT 9	101
2	08.00	MTWTHF	TECH A	322
3	08.00	MTWTHF	UNIT 3	101
4	09.00	TWTHFS	PULL	43
5	09.00	M W F	TECH A	220
	09.00	T TH	PHY SC	218
6	10.00	T TH S	PHY SC	116
	10.00	W F	AG	116
7	10.00	MTWTHF	PHY SC	218
8	11.00	T TH S	TECH A	220
	11.00	W	MAIN	209
	11.00	F	LS I	16

9	11.00	M W FS	PARK	204
	11.00	T	TECH A	210
10	11.00	MTWTHF	ARENA	125
11	12.00	MTWTHF	AG	224
12	12.00	MTWTHF	AG	154
13	01.00	MTWTHF	BROWN	130
14	01.00	W	TECH A	322
	01.00	T THF	TECH A	222
	01.00	M	AG	154
15	02.00	MTWTHF	BROWN	130
16	02.00	MTWTHF	TECH A	220
17	03.00	MTWTHF	UNIT 2	101
18	03.00	MTWTHF	ARENA	121
19	06.00-07.25 PM	M WTH	TECH A	308
20	07.35-09.00 PM	M WTH	TECH A	308
21	07.35-09.00 PM	M WTH	TECH A	320
111B	COL ALGEBRA TRIG		05.0	CR
	PREREQ	GSD 107B	CR MATH	111A
1	08.00	MTWTHF	AG	154
2	08.00	MTWTHF	TECH A	220
3	08.00	M WTHF	PHY SC	118
	08.00	T	TECH A	222
4	08.00	MTWTH S	AG	216
5	09.00	MTWTHF	BROWN	130
6	09.00	T FS	TECH A	222
	09.00	TH	AG	216
	09.00	M	PHY SC	116
7	09.00	MTWTH S	AG	168
8	10.00	MTWTHF	TECH A	310
9	10.00	MTWTHF	TECH A	308
10	10.00	MTW FS	PHY SC	118
11	10.00	MTWTHF	TECH A	210
12	11.00	T TH S	TECH A	222
	11.00	F	TECH A	308
	11.00	M	UNIT 3	101
13	11.00	MTWTHF	ARENA	123
14	11.00	MTWTHF	PHY SC	218
15	12.00	MTWTHF	ARENA	121
16	12.00	MTWTHF	H EC	118
17	12.00	MTWTHF	WHAM	202
18	12.00	MTWTHF	AG	216
19	01.00	MTWTHF	0875	101
20	01.00	MTWTHF	ARENA	121
21	01.00	MTWTHF	PHY SC	116
22	02.00	MTWTHF	PHY SC	218
23	02.00	MTWTHF	PHY SC	118
24	02.00	MTWTHF	TECH A	308
25	03.00	MTWTHF	PHY SC	218
26	03.00	MTWTH	PHY SC	118
27	03.00	MTWTHF	BROWN	130
28	04.00	MTWTHF	TECH D	131
29	06.00-07.25 PM	M WTH	TECH A	220
30	06.00-07.25 PM	M WTH	TECH A	210
31	07.35-09.00 PM	M WTH	TECH A	220
32	07.35-09.00 PM	M WTH	TECH A	210
150A	ELEM CALC-ANAL GEOM		05.0	CR
	PREREQ	MATH 111B		
1	08.00	MTWTHF	BROWN	130
2	10.00	MTWTHF	TECH D	131
3	11.00	MTWTHF	BROWN	130
4	12.00	MTWTHF	TECH A	220
5	01.00	MTWTHF	TECH A	210
6	02.00	MTWTHF	TECH A	210
7	03.00	MTWTHF	AG	216
8	07.35-09.00 PM	M WTH	TECH A	322
150B	ELEM CALC-ANAL GEOM		05.0	CR
	PREREQ	MATH 150A		
1	08.00	MTWTHF	TECH A	320
2	09.00	MTWTHF	TECH D	131
3	12.00	MTWTHF	TECH D	131
4	02.00	MTWTHF	TECH A	310
5	03.00	MTWTHF	TECH A	210
6	06.00-07.25 PM	M WTH	TECH A	320

159A	ELEM CALCULUS-HONOR		07.0	CR	
	PREREQ	CONSENT OF DEPT			
1	01.00	M W	PARK	301	
	01.00	T THF	ABBOTT	129	
159B	ELEM CALCULUS-HONOR		07.0	CR	
	PREREQ	CONSENT OF DEPT			
1	09.00	W	AG	170	
	09.00	T TH	TECH A	120	
	09.00	F	ARENA	121	
	09.00	M	GYM	203	
252A	INTER CALC-ANAL GEO		05.0	CR	
	PREREQ	MATH 150B			
1	09.00	MTWTHF	TECH A	210	
2	11.00	MTWTHF	TECH D	131	
3	12.00	MTWTHF	TECH A	308	
4	02.00	MTWTHF	TECH A	320	
5	06.00-07.25 PM	MTWTHF	TECH A	322	
252B	INTER CALC-ANAL GEO		04.0	CR	
	PREREQ	MATH 252A			
1	08.00	MT THF	TECH A	210	
2	01.00	MT THF	TECH A	220	
3	03.00	TWTHF	TECH A	310	
259A	INTER-CALCULUS-HON		07.0	CR	
	PREREQ	MATH 150B CR 159B AND CONSENT OF DEPT			
1	11.00	MT TH	PARK	111	
	11.00	W	UNIT11	101	
	11.00	F	WHAM	203	
259B	INTER-CALCULUS-HON		06.0	CR	
	PREREQ	MATH 259A			
1	03.00	MTWTHF	WHLR	207	
301	FUNDAMENTAL CONCEPT		03.0	CR	
	PREREQ	MATH 150B			
1	09.00	T TH	TECH A	308	
	09.00	F	AG	148	
2	04.00	M W F	TECH A	310	
305A	MATH PHYS SCIENCES		03.0	CR	
	PREREQ	MATH 252B			
1	08.00	M W F	TECH A	308	
2	01.00	T THF	TECH A	322	
3	03.00	T THF	TECH A	308	
305B	MATH PHYS SCIENCES		03.0	CR	
	PREREQ	MATH 305A			
1	10.00	M W F	TECH A	322	
2	12.00	T THF	TECH A	310	
3	04.00	M W F	TECH A	308	
310	TEACHING ELEM MATH		04.0	CR	
	PREREQ	GSD 108B			
1	08.00	MTWTH	WHAM	202	BEATTIE
2	11.00	MTWTH	WHAM	202	BEATTIE
3	02.00	MTWTH	WHAM	202	
4	04.00	MTWTH	WHAM	202	
319	INTR-ABSTRACT ALG		03.0	CR	
	PREREQ	MATH 301 CR CONSENT OF DEPT			
1	04.00	M W F	TECH A	322	
321	ELEM MATRIX ALGEBRA		03.0	CR	
	PREREQ	MATH 301 CR CONSENT OF DEPT			
1	11.00	MT TH	TECH A	308	
325	INTRO-NUMBER THEORY		03.0	CR	
	PREREQ	MATH 301 CR CONSENT OF DEPARTM ENT			
1	10.00	M WTH	TECH A	320	
2	12.00	MT TH	TECH A	320	
335A	CONCEPTS OF GEOM		03.0	CR	
	PREREQ	MATH 252A			
1	09.00	M W	TECH A	320	
	09.00	TH	TECH A	322	
335B	CONCEPTS OF GEOM		03.0	CR	
	PREREQ	MATH 335A			
1	03.00	MT TH	TECH A	320	
352	INTRO TO ANALYSIS		03.0	CR	
	PREREQ	MATH 301 CR CONSENT OF DEPT			
1	01.00	M WTH	TECH A	308	

395	READINGS IN MATH	02.0 TO 05.0 CR			
	PREREQ	CONSENT OF DEPT			
1	TO BE ARRANGED				
410B	STAT ANALYSIS	04.0 CR			
	PREREQ	MATH 410A			
1	10.00	M W F	AG	166	STARKS T
	10.00-11.50	T	TECH A	322	
2	10.00	M W F	AG	166	
	10.00-11.50	TH	TECH A	322	
3	10.00	M W F	AG	166	
	10.00-11.50	TH	AG	188	
	SECT 3 FOR PSYCHOLOGY STUDENTS				
419A	ALGEBRAIC STRUCTURE	03.0 CR			
	PREREQ	MATH 301			
1	03.00	M W F	TECH A	322	
421A	LINEAR ALGEBRA	03.0 CR			
	PREREQ	MATH 252B			
1	12.00	M WTH	TECH A	322	
421B	LINEAR ALGEBRA	03.0 CR			
	PREREQ	MATH 421A			
1	09.00	T THF	TECH A	320	
2	01.00	M W F	TECH A	310	
426A	MATH LOGIC	03.0 CR			
	PREREQ	MATH 301 CR CONSENT OF DEPT			
1	11.00	M W F	TECH A	322	
428A	BOOL ALG-SWI THEORY	03.0 CR			
	PREREQ	MATH 301 CR 320A			
1	01.00	M W F	TECH A	320	
2	04.00	M W F	TECH A	320	
433B	INTRO TO TOPOLOGY	03.0 CR			
	PREREQ	MATH 433A			
1	02.00	T THF	TECH A	322	
452B	ADVANCED CALCULUS	03.0 CR			
	PREREQ	MATH 452A			
1	09.00	MTW F	TECH A	322	
455B	ADV MATH-PHYS SCI	03.0 CR			
	PREREQ	MATH 305B CR CONSENT OF INSTR			
1	12.00	MT TH	TECH A	122	
475B	NUMERICAL ANALYSIS	03.0 CR			
	PREREQ	MATH 475A			
1	03.00	M W F	TECH A	120	
480B	PROBABILITY	03.0 CR			
	PREREQ	MATH 480A			
1	10.00	M W F	TECH A	122	
483B	INTRO MATH STAT	03.0 CR			
	PREREQ	MATH 483A CR MATH 480A, 421A AND CONSENT OF INSTR			
1	11.00	M W F	AG	188	
501B	REAL VARIABLES	03.0 CR			
	PREREQ	MATH 501A			
1	01.00	T THF	TECH A	122	
505B	TH ORDIN DIFF EQUAT	03.0 CR			
	PREREQ	MATH 505A			
1	09.00	M W F	TECH B	20	
520B	MODERN ALGEBRA	03.0 CR			
	PREREQ	MATH 520A			
1	03.00	M W F	TECH A	122	
522	ADV TOPICS-ALGEBRA	03.0 TO 18.0 CR			
	PREREQ	MATH 520B			
1	04.00	M W F	TECH B	20	
528B	THEORY OF AUTOMATA	03.0 CR			
	PREREQ	MATH 528A			
1	12.00	M W F	TECH A	120	
530B	GENERAL TOPOLOGY	03.0 CR			
	PREREQ	530A			
1	02.00	T THF	TECH A	122	
531B	ALGEBRAIC TOPOLOGY	03.0 CR			
	PREREQ	MATH 531A			
1	02.00	T THF	TECH A	120	
532	ADV TOPICS TOPOLOGY	03.0 CR			
	PREREQ	CONSENT OF DEPT			
1	01.00-02.50	M W	TECH B	20	

551B	FUNCTIONAL ANALYSIS	03.0 CR	
	PREREQ MATH 551A		
1	01.00	T THF	TECH B 20
552	ADV TOPICS-ANALYSIS	03.0 CR	
	PREREQ CONSENT OF DEPT		
1	09.00-10.50	T TH	TECH B 20
2	10.00-11.50	T TH	TECH A 120
555B	COMPLEX VARIABLES	03.0 CR	
	PREREQ MATH 555A		
1	11.00	M W F	TECH A 220
595A	SP PROJ ALGEBRA	02.0 TO 05.0 CR	
1	TO BE ARRANGED		
595B	SP PROJ GEOMETRY	02.0 TO 05.0 CR	
1	TO BE ARRANGED		
595C	SP PROJ ANALYSIS	02.0 TO 05.0 CR	
1	TO BE ARRANGED		BURTON THEODORE A
595D	SP PROJ PROB + STAT	02.0 TO 05.0 CR	
1	TO BE ARRANGED		FAINE THOMAS B
595E	SP PROJ MATH EDUC	02.0 TO 05.0 CR	
1	TO BE ARRANGED		
595F	SP PROJ LOGIC + FOL	02.0 TO 05.0 CR	
1	TO BE ARRANGED		PHILLIPS NICHOLS C <
595G	SP PROJ TOPOLOGY	02.0 TO 05.0 CR	
1	TO BE ARRANGED		TOWNSEND CARL G
599	THESIS	02.0 TO 05.0 CR	
1	TO BE ARRANGED		
600	DISSERTATION	01.0 TO 12.0 CR	
1	TO BE ARRANGED		WILSON JOSEPH C

Microbiology (MICR)

301	PRIN-MICROBIOLOGY	05.0 CR	
	PREREQ 1 YR OF COLLEGE CHEM +		
	GSA 210A CR EQUIVALENT		
1	08.00	MTWTH	LS I 16
	09.00-10.50	M W	LS I 6
	09.00	F	LS I 6
2	08.00	MTWTH	LS I 16
	11.00-12.50	M W	LS I 6
	11.00	F	LS I 6
3	08.00	MTWTH	LS I 16
	01.00-02.50	M W	LS I 6
	08.00	F	LS I 6
4	08.00	MTWTH	LS I 16
	03.00-04.50	M W	LS I 6
	10.00	F	LS I 6
5	08.00	MTWTH	LS I 6
	06.00-07.50 PM	M W	LS I 6
	12.00	F	LS I 6
390	UNDERGRAD RES PART	02.0 TO 05.0 CR	
	PREREQ 4.00 GPA IN MICR AND/OR		
	CONSENT OF DEPARTMENT		
1	TO BE ARRANGED		
422	MICROBIOLOGY FOODS	05.0 CR	
	PREREQ 301		
1	02.00	MTW	LS I 16
	01.00-04.50	F	LS I 6
451	IMMUNOLOGY--LECTURE	03.0 CR	
	PREREQ MICR 403		
1	09.00	M W F	LS I 16
452	IMMUNOLOGY--LAB	03.0 CR	
	PREREQ 403 AND 451-3 CR CONCURRENT		
	REGISTRATION		
1	09.00-11.50	T TH	LS I 6
2	09.00-11.50	T TH	LS I 8
461	GEN-BACT + VIRUSES	05.0 CR	
	PREREQ 302		
1	01.00	MTW	WHAM 301A ROUHANDEH
	03.00-04.50	T TH	LS I 6
500	SEMINAR	01.0 CR	
1	TO BE ARRANGED		
511	RESEARCH	01.0 TO 15.0 CR	
1	TO BE ARRANGED		
525	BIOCHM PHSL MICRO	03.0 CR	

1	10.00	M WTH	LS I	16	CGUR MAURICE
526	BIOCHM PHSL-MICRCOR			03.0 CR	
	PREREQ MICR 426				
1	01.00-05.50	TH	LS I	8	
528	READINGS IN MICRC		01.0 TO 10.0 CR		
1	TO BE ARRANGED				
562	MOLECULAR GENETICS			03.0 CR	
	PREREQ MICR 425				
1	08.00	M W F	WHAM	212	GILMORE RICHARD
599	THESIS		03.0 TO 09.0 CR		
1	TO BE ARRANGED				
600	DISSERTATION		03.0 TO 48.0 CR		
1	TO BE ARRANGED				
Music (MUS)					
001B	SYMPHONIC BAND			01.0 CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	02.00	MTWTHF	ALTG	114	KCENIGSTEIN
001C	STAGE BAND			01.0 CR	
	PREREQ AUDITION				
1	07.00-09.30	T	ALTG	114	STIMAN HAROLD E
2	07.00-09.30	W	ALTG	114	LEMASTERS
3	07.00-09.30	TH	ALTG	114	
001D	LABORATORY BAND			01.0 CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	07.00-09.00 PM	M	ALTG	114	KCENIGSTEIN NICHOLA
001E	WIND ENSEMBLE			01.0 CR	
	PREREQ AUDITION				
1	03.00-04.30	T TH	ALTG	114	SIENER MELVIN L
002A	UNIVERSITY CHOIR			01.0 CR	
	PREREQ AUDITION				
1	04.00-05.30	T TH	ALTG	115	KINGSBURY ROBERT W
002B	CHORUS ORATORIO		00.0 TO 01.0 CR		
1	07.30-09.45 PM	M	H EC	140B	KINGSBURY ROBERT W
2	07.30-09.45 PM	M	ALTG	115	KINGSBURY ROBERT
002C	MALE GLEE CLUB			01.0 CR	
	PREREQ AUDITION				
1	08.00-09.30 PM	T TH	ALTG	115	KINGSBURY ROBERT W
002D	WOMEN-CHORAL ENSEM			01.0 CR	
	PREREQ AUDITION				
1	03.00	M W	ALTG	115	TAYLOR CHARLES C
	03.00	F	ALTG	116	TAYLOR CHARLES C
002E	ANGEL FLT ANGELAIRE			01.0 CR	
	PREREQ MEMBERSHIP IN S.I.U. ANGEL FLIGHT				
1	07.30-09.00 PM	T TH	ALTG	248	
003A	UNIVERSITY ORCHESTR			01.0 CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	03.00-04.30	M W F	ALTG	114	KARTMAN MYRON H
003B	CHAMBER ORCHESTRA			01.0 CR	
	PREREQ AUDITION				
1	TO BE ARRANGED				LEVINSON HERBERT L
010A	CLASS APP-STRINGS			01.0 CR	
1	09.00	T TH	ALTG	114	WHARTON JOHN S
010B	CLASS APP-WOODWINDS			01.0 CR	
1	08.00	T TH	OBF	114	INTRAVIA + RESNICK
010C	CLASS APP-BRASS			01.0 CR	
1	11.00	T TH	ALTG	114	STIMAN + LEMASTERS
010D	CLASS APP-PERCUSS			01.0 CR	
1	10.00	T TH	ALTG	114	FLOYD SAMUEL
010E	CLASS APP-PIANO			01.0 CR	
1	08.00	M F	ALTG	301	HARTLINE ELISABETH D
	(MM1)				
2	08.00	T TH	ALTG	301	HARTLINE
	KP2				
3	09.00	M F	ALTG	301	BEDFORD
	KP3				
4	09.00	T TH	ALTG	301	BEDFORD
	SKP3				
5	10.00	T F	ALTG	301	HARTLINE
	MM5				
6	10.00	M W	ALTG	301	HARTLINE
	KP2				

7	11.00	M F	ALTG	301	BEDFCRD
	MM2				
8	11.00	T TH	ALTG	301	HARTLINE
	KP1				
9	11.00	W S	ALTG	301	BEDFCRD
	KP1				
10	12.00	M W	ALTG	301	HARTLINE
	MM2				
11	12.00	T F	ALTG	301	HARTLINE
	MM6				
12	01.00	M W	ALTG	301	BEDFCRD
	MM6				
13	01.00	T F	ALTG	301	BEDFCRD
	MM4				
14	02.00	M W	ALTG	301	HARTLINE
	MM5				
15	02.00	T F	ALTG	301	HARTLINE
	MM6				
16	03.00	M W	ALTG	301	BEDFCRD
	KP2				
17	03.00	T F	ALTG	301	BEDFCRD
	KP6				
010F	CLASS APP-VOICE			01.0 CR	
1	10.00	T TH	ALTG	248	KAGEFF BURT
2	01.00	T TH	ALTG	248	KAGEFF BURT
105A	THEORY OF MUSIC			04.0 CR	
1	09.00	MTWTHF	ALTG	248	HUSSEY GEORGE A
105B	THEORY OF MUSIC			04.0 CR	
1	08.00	MTWTHF	ALTG	106	WEBB MARY ANN V
2	08.00	MTWTHF	ALTG	248	BABER JOSEPH W
3	09.00	MTWTHF	ALTG	106	CLDFIELD AL
4	09.00	MTWTHF	ALTG	116	GRIZZELL MARY JANE
140A	PRIV APP MUS-VIOLIN			01.0 TO 04.0 CR	
	PREREQ	MUS CONC OR SECNDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				LEVINSON HERBERT L
2	TO BE ARRANGED				KARTMAN MYRON H
3	TO BE ARRANGED				WHARTON JOHN S
	RESTRICTED - SEE NOTE BELCW				
140B	PRIV APP MUS-VIOLA			01.0 TO 04.0 CR	
	PREREQ	MUS CONC OR SECNDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				BABER JOSEPH W
	RESTRICTED - SEE NOTE BELCW				
140C	PRIV APP MUS-CELLO			01.0 TO 04.0 CR	
	PREREQ	MUS CONC OR SECNDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				COWLEY DAVID
	RESTRICTED - SEE NOTE BELCW				
140D	PRIV APP MUS-STRING			01.0 TO 04.0 CR	
	PREREQ	MUS CONC OR SECNDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				COWLEY DAVID
	RESTRICTED - SEE NOTE BELCW				
140E	PRIV APP MUS-FLUTE			01.0 TO 04.0 CR	
	PREREQ	MUS CONC OR SECNDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				RESNICK ROBERT S
2	TO BE ARRANGED				BOTTJE WILL G
	RESTRICTED - SEE NOTE BELCW				
140F	PRIV APP MUS-OBOE			01.0 TO 04.0 CR	
	PREREQ	MUS CONC OR SECNDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				HUSSEY GEORGE A
	RESTRICTED - SEE NOTE BELCW				
140G	PRIV APP MUS-CLAR			01.0 TO 04.0 CR	
	PREREQ	MUS CONC OR SECNDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				RESNICK ROBERT S
2	TO BE ARRANGED				INTRAVAIA
	RESTRICTED - SEE NOTE BELCW				

140H	PRIV APP MUS-BASSON	01.0 TO 04.0 CR			
	PREREQ	MUS CONC CR SECONDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				INTRAVAIA LAWRENCE
	RESTRICTED - SEE NOTE BELCW				
140I	PRIV APP MUS-SAX	01.0 TO 04.0 CR			
	PREREQ	MUS CONC CR SECONDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				RESNICK ROBERT S
2	TO BE ARRANGED				FUSSEY GEORGE A
	RESTRICTED - SEE NOTE BELCW				
140J	PRIV APP MUS-PERCUS	01.0 TO 04.0 CR			
	PREREQ	MUS CONC CR SECONDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				FLOYD SAMUEL
	RESTRICTED - SEE NOTE BELCW				
140K	PRIV APP MUS-PIANO	01.0 TO 04.0 CR			
	PREREQ	MUS CONC CR SECONDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				GRIZZELL MARY JANE
2	TO BE ARRANGED				CENKER FRED H
3	TO BE ARRANGED				BARWICK STEVEN
4	TO BE ARRANGED				MUELLER ROBERT E
5	TO BE ARRANGED				WERNER WARREN KENT
	RESTRICTED - SEE NOTE BELCW				
140L	PRIV APP MUS-F HORN	01.0 TO 04.0 CR			
	PREREQ	MUS CONC CR SECONDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				NADAF GEORGE
	RESTRICTED - SEE NOTE BELCW				
140M	PRIV APP MUS-TRUMP	01.0 TO 04.0 CR			
	PREREQ	MUS CONC CR SECONDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				LEMASTERS DONALD D
2	TO BE ARRANGED				CLSSCN PHILLIP H
	RESTRICTED - SEE NOTE BELCW				
140N	PRIV APP MUS-TRBONE	01.0 TO 04.0 CR			
	PREREQ	MUS CONC CR SECONDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				STIMAN HAROLD E
	RESTRICTED - SEE NOTE BELCW				
140O	PRIV APP MUS-TUBA	01.0 TO 04.0 CR			
	PREREQ	MUS CONC CR SECONDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				STIMAN HAROLD E
	RESTRICTED - SEE NOTE BELCW				
140P	PRIV APP MUS-BATONE	01.0 TO 04.0 CR			
	PREREQ	MUS CONC CR SECONDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				STIMAN HAROLD E
	RESTRICTED - SEE NOTE BELCW				
140Q	PRIV APP MUS-VOICE	01.0 TO 04.0 CR			
	PREREQ	MUS CONC CR SECONDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				KAGEFF BURT
2	TO BE ARRANGED				TAYLOR WILLIAM KLET
3	TO BE ARRANGED				LAWRENCE MARJORIE
4	TO BE ARRANGED				WALLACE MARY
	RESTRICTED - SEE NOTE BELCW				
140R	PRIV APP MUS-ORGAN	01.0 TO 04.0 CR			
	PREREQ	MUS CONC CR SECONDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				WEBB MARY ANN V
	RESTRICTED - SEE NOTE BELCW				
140S	PRIV APP MUS-HARPC	01.0 TO 04.0 CR			
	PREREQ	MUS CONC CR SECONDARY CONC OR			
		CONSENT OF MUS FACULTY			
1	TO BE ARRANGED				MORGAN WESLEY K
2	TO BE ARRANGED				BEDFORD FRANCES
	RESTRICTED - SEE NOTE BELCW				
200	FUNDAMENTALS-MUSIC	03.0 CR			
1	01.00	M W F	ALTG	248	MCHUGH
2	03.00	M W F	ALTG	248	MCHUGH

205B	THEORY OF MUSIC	03.0 CR	
	PREREQ 205A		
1	11.00	MTWTHF	ALTG 196 DENKER FRED H
2	11.00	MTWTHF	ALTG 248 MUELLER ROBERT E
3	11.00	MTWTHF	ALTG 116 WERNER
240A	PRIV APP MUS-VIOLIN	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON		
	SAME INSTR OR CCSENT		
1	TO BE ARRANGED		LEVINSON HERBERT L
2	TO BE ARRANGED		KARTMAN MYRON H
3	TO BE ARRANGED		WHARTON JOHN S
	RESTRICTED - SEE NOTE BELCW		
240B	PRIV APP MUS-VIOLA	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON		
	SAME INSTR OR CCSENT		
1	TO BE ARRANGED		BABER JOSEPH W
	RESTRICTED - SEE NOTE BELCW		
240C	PRIV APP MUS-CELLO	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON		
	SAME INSTR OR CCSENT		
1	TO BE ARRANGED		COWLEY DAVID
	RESTRICTED - SEE NOTE BELCW		
240D	PRIV APP MUS-STRING	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON		
	SAME INSTR OR CCSENT		
1	TO BE ARRANGED		COWLEY DAVID
	RESTRICTED - SEE NOTE BELCW		
240E	PRIV APP MUS-FLUTE	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON		
	SAME INSTR OR CCSENT		
1	TO BE ARRANGED		RESNICK ROBERT S
2	TO BE ARRANGED		BOTTJE WILL G
	RESTRICTED - SEE NOTE BELCW		
240F	PRIV APP MUS-OBOE	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON		
	SAME INSTR OR CCSENT		
1	TO BE ARRANGED		FUSSEY GEORGE A
	RESTRICTED - SEE NOTE BELCW		
240G	PRIV APP MUS-CLAR	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON		
	SAME INSTR OR CCSENT		
1	TO BE ARRANGED		RESNICK ROBERT S
2	TO BE ARRANGED		INTRAVIA L
	RESTRICTED - SEE NOTE BELCW		
240H	PRIV APP MUS-BASSON	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON		
	SAME INSTR OR CCSENT		
1	TO BE ARRANGED		INTRAVAIA LAWRENCE J
	RESTRICTED - SEE NOTE BELCW		
240I	PRIV APP MUS-SAX	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON		
	SAME INSTR OR CCSENT		
1	TO BE ARRANGED		RESNICK ROBERT S
2	TO BE ARRANGED		HUSSEY GEORGE A
	RESTRICTED - SEE NOTE BELCW		
240J	PRIV APP MUS-PERCUS	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON		
	SAME INSTR OR CCSENT		
1	TO BE ARRANGED		FLOYD SAMUEL
	RESTRICTED - SEE NOTE BELCW		
240K	PRIV APP MUS-PIANO	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON		
	SAME INSTR OR CCSENT		
1	TO BE ARRANGED		GRIZZELL MARY JANE
2	TO BE ARRANGED		DENKER FRED H
3	TO BE ARRANGED		BARWICK STEVEN
4	TO BE ARRANGED		MUELLER ROBERT E
5	TO BE ARRANGED		WERNER WARREN KENT
	RESTRICTED - SEE NOTE BELCW		
240L	PRIV APP MUS-F HORN	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON		
	SAME INSTR OR CCSENT		

1	TO BE ARRANGED				NADAF GEORGE
	RESTRICTED - SEE NOTE BELCW				
240M	PRIV APP MUS-TRUMP	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				LEMASTERS DONALD C
2	TO BE ARRANGED				CLSSON PHILLIP H
	RESTRICTED - SEE NOTE BELCW				
240N	PRIV APP MUS-TRBCNE	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				STIMAN HAROLD E
	RESTRICTED - SEE NOTE BELCW				
240O	PRIV APP MUS-TUBA	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				STIMAN HAROLD E
	RESTRICTED - SEE NOTE BELCW				
240P	PRIV APP MUS-BATONE	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				STIMAN HAROLD E
	RESTRICTED - SEE NOTE BELCW				
240Q	PRIV APP MUS-VOICE	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				KAGEFF BURT
2	TO BE ARRANGED				TAYLOR WILLIAM KLET
3	TO BE ARRANGED				LAWRENCE MARJORIE
4	TO BE ARRANGED				WALLACE MARY
	RESTRICTED - SEE NOTE BELCW				
240R	PRIV APP MUS-ORGAN	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				WEBB MARY ANN V
	RESTRICTED - SEE NOTE BELCW				
240S	PRIV APP MUS-HARPCH	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				MORGAN WESLEY K
2	TO BE ARRANGED				BEDFORD FRANCES
	RESTRICTED - SEE NOTE BELCW				
300B	EL METH-NON MAJ 4-6	03.0 CR			
	PREREQ 200 OR EQUIVALENT				
1	12.00 M W F	ALTG 248			MCHUGH
300C	EL METH-NON MAJ K-3	03.0 CR			
	PREREQ 200 OR EQUIVALENT				
1	10.00 M W F	ALTG 248			MCHUGH
305I	INSTRUMENTAL PROB	03.0 CR			
1	12.00 M W F	ALTG 106			KOENIGSTEIN NICHOLA
305V	VOCAL PROB+METH /P/	03.0 CR			
1	01.00 M W F	ALTG 106			TAYLOR CHARLES C
309A	ARRANGING	02.0 CR			
	PREREQ 105C				
1	11.00 T TH	ALTG 115			BABER
312B	COMPOSITION	02.0 CR			
	PREREQ 312A				
1	TO BE ARRANGED				BOTTJE WILL G
2	TO BE ARRANGED				CLDFIELD
318A	CONDUCTING	02.0 CR			
1	12.00 T TH	ALTG 248			LEVINSON HERBERT L
326B	ANALYSIS	02.0 CR			
	PREREQ 326A				
1	02.00 T TH	ALTG 116			BOTTJE
340A	PRIV APP MUS-VIOLIN	01.0 TO 04.0 CR			
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT				
1	TO BE ARRANGED				LEVINSON HERBERT L
2	TO BE ARRANGED				KARTMAN MYRON H
3	TO BE ARRANGED				WHARTON JOHN S
	RESTRICTED - SEE NOTE BELCW				

340B	PRIV APP MUS-VIOLA	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		BABER JOSEPH W
	RESTRICTED - SEE NOTE BELCW		
340C	PRIV APP MUS-CELLO	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		COWLEY DAVID
	RESTRICTED - SEE NOTE BELCW		
340D	PRIV APP MUS-STRING	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		COWLEY DAVID
	RESTRICTED - SEE NOTE BELCW		
340E	PRIV APP MUS-FLUTE	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		RESNICK ROBERT S
2	TO BE ARRANGED		BOTTJE WILL G
	RESTRICTED - SEE NOTE BELCW		
340F	PRIV APP MUS-OBOE	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		FUSSEY GEORGE A
	RESTRICTED - SEE NOTE BELCW		
340G	PRIV APP MUS-CLAR	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		RESNICK ROBERT S
2	TO BE ARRANGED		INTRAVAIA
	RESTRICTED - SEE NOTE BELCW		
340H	PRIV APP MUS-BASSON	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		INTRAVAIA LAWRENCE J
	RESTRICTED - SEE NOTE BELCW		
340I	PRIV APP MUS-SAX	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		RESNICK ROBERT S
2	TO BE ARRANGED		FUSSEY GEORGE A
	RESTRICTED - SEE NOTE BELCW		
340J	PRIV APP MUS-PERCUS	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		FLOYD SAMUEL
	RESTRICTED - SEE NOTE BELCW		
340K	PRIV APP MUS-PIANO	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		GRIZZELL MARY JANE
2	TO BE ARRANGED		CENKER FRED H
3	TO BE ARRANGED		BARWICK STEVEN
4	TO BE ARRANGED		MUELLER ROBERT E
5	TO BE ARRANGED		WERNER WARREN KENT
	RESTRICTED - SEE NOTE BELCW		
340L	PRIV APP MUS-F HORN	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		NADAF GEORGE
	RESTRICTED - SEE NOTE BELCW		
340M	PRIV APP MUS-TRUMP	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		LEMASTERS DONALD D
2	TO BE ARRANGED		CLSSCN PHILLIP H
	RESTRICTED - SEE NOTE BELCW		
340N	PRIV APP MUS-TRBONE	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		STIMAN HAROLD E
	RESTRICTED - SEE NOTE BELCW		

3400	PRIV APP MUS-TUBA	01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT			
1	TO BE ARRANGED			STIMAN HAROLD E
	RESTRICTED - SEE NOTE BELCW			
340P	PRIV APP MUS-BATONE	01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT			
1	TO BE ARRANGED			STIMAN HAROLD E
	RESTRICTED - SEE NOTE BELCW			
340Q	PRIV APP MUS-VOICE	01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT			
1	TO BE ARRANGED			KAGEFF BURT
2	TO BE ARRANGED			TAYLOR WILLIAM KLET
3	TO BE ARRANGED			LAWRENCE MARJORIE
4	TO BE ARRANGED			WALLACE MARY
	RESTRICTED - SEE NOTE BELCW			
340R	PRIV APP MUS-ORGAN	01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT			
1	TO BE ARRANGED			WEBB MARY ANN V
	RESTRICTED - SEE NOTE BELCW			
340S	PRIV APP MUS-HARPCH	01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT			
1	TO BE ARRANGED			MORGAN WESLEY K
2	TO BE ARRANGED			BEDFORD FRANCES
	RESTRICTED - SEE NOTE BELCW			
341	ACCOMPANYING LAB	01.0 CR		
1	TO BE ARRANGED			HARTLINE ELISABETH
346	OPERA WORKSHOP	02.0 TO 06.0 CR		
1	03.00 T TH ALTG 115			LAWRENCE MARJORIE
	03.00-04.50 F ALTG 115			LAWRENCE MARJORIE
	07.00-10.00 PM WTH ALTG 116			LAWRENCE MARJORIE
357B	MUSIC HIST + LIT	03.0 CR		
	PREREQ 357A			
1	10.00 TWTHF ALTG 116			
365A	CHAMBER MUS-VOCAL	01.0 CR		
1	04.00 M W ALTG 115			KINGSBURY ROBERT
2	04.00 M W ALTG 116			TAYLOR CHARLES
365B	CHAMBER MUS-STRING	01.0 CR		
1	TO BE ARRANGED			KARTMAN MYRON
365C	CHAMBER MUS-WOODWND	01.0 CR		
1	TO BE ARRANGED			RESNICK + HUSSEY
365D	CHAMBER MUS-BRASS	01.0 CR		
1	TO BE ARRANGED			NADAF + KOENIGSTEIN
365E	CHAMBER MUS-PERCUSS	01.0 CR		
1	TO BE ARRANGED			FLOYD SAMUEL
411B	CHORAL LITERATURE	03.0 CR		
1	02.00 M W F ALTG 106			
414	COLLEGIUM MUSICUM	02.0 TO 06.0 CR		
	PREREQ MUSIC CONCENTRATION AND/OR CONSENT OF DEPARTMENT			
1	01.00 T TH ALTG 115			MORGAN WESLEY K
440A	PRIV APP MUS-VIOLIN	01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT			
1	TO BE ARRANGED			LEVINSON HERBERT L
2	TO BE ARRANGED			KARTMAN MYRON H
3	TO BE ARRANGED			WHARTON JOHN S
	RESTRICTED - SEE NOTE BELCW			
440B	PRIV APP MUS-VIOLA	01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT			
1	TO BE ARRANGED			BABER JOSEPH W
	RESTRICTED - SEE NOTE BELCW			
440C	PRIV APP MUS-CELLO	01.0 TO 04.0 CR		
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CCNSENT			
1	TO BE ARRANGED			COWLEY DAVID
	RESTRICTED - SEE NOTE BELCW			

440D	PRIV APP MUS-STRING	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		COWLEY DAVID
	RESTRICTED - SEE NOTE BELOW		
440E	PRIV APP MUS-FLUTE	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		RESNICK ROBERT S
2	TO BE ARRANGED		BOTTJE WILL G
	RESTRICTED - SEE NOTE BELOW		
440F	PRIV APP MUS-OBOE	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		HUSSEY GEORGE A
	RESTRICTED - SEE NOTE BELOW		
440G	PRIV APP MUS-CLAR	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		RESNICK ROBERT S
2	TO BE ARRANGED		INTRAVAIA
	RESTRICTED - SEE NOTE BELOW		
440H	PRIV APP MUS-BASSON	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		INTRAVAIA LAWRENCE J
	RESTRICTED - SEE NOTE BELOW		
440I	PRIV APP MUS-SAX	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		RESNICK ROBERT S
2	TO BE ARRANGED		HUSSEY GEORGE A
	RESTRICTED - SEE NOTE BELOW		
440J	PRIV APP MUS-PERCUS	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		FLOYD SAMUEL
	RESTRICTED - SEE NOTE BELOW		
440K	PRIV APP MUS-PIANO	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		GRIZZELL MARY JANE
2	TO BE ARRANGED		DENKER FRED H
3	TO BE ARRANGED		BARWICK STEVEN
4	TO BE ARRANGED		MUELLER ROBERT E
5	TO BE ARRANGED		WERNER WARREN KENT
	RESTRICTED - SEE NOTE BELOW		
440L	PRIV APP MUS-F HORN	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		NADAF GEORGE
	RESTRICTED - SEE NOTE BELOW		
440M	PRIV APP MUS-TRUMP	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		LEMASTERS DONALD D
2	TO BE ARRANGED		CLSSON PHILLIP H
	RESTRICTED - SEE NOTE BELOW		
440N	PRIV APP MUS-TRBONE	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		STIMAN HAROLD E
	RESTRICTED - SEE NOTE BELOW		
440O	PRIV APP MUS-TUBA	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		STIMAN HAROLD E
	RESTRICTED - SEE NOTE BELOW		
440P	PRIV APP MUS-BATONE	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		STIMAN HAROLD E
	RESTRICTED - SEE NOTE BELOW		

440Q	PRIV APP MUS-VOICE	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE ARRANGED		KAGEFF BURT
2	TO BE ARRANGED		TAYLOR WILLIAM KLE
3	TO BE ARRANGED		LAWRENCE MARJORIE
4	TO BE ARRANGED		WALLACE MARY
	RESTRICTED - SEE NOTE BELOW		
440R	PRIV APP MUS-ORGAN	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE ARRANGED		WEBB MARY ANN V
	RESTRICTED - SEE NOTE BELOW		
440S	PRIV APP MUS-HARPCB	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE ARRANGED		MORGAN WESLEY K
2	TO BE ARRANGED		REDFORD FRANCES
	RESTRICTED - SEE NOTE BELOW		
441B	COUNTERPOINT	02.0 CR	
	PREREQ 105C		
1	01.00	1 TH	ALTG 106
444B	INTERMEDIATE COMP	02.0 CR	WERNER WARREN KENT
	PREREQ 444A		
1	TO BE ARRANGED		BOTTJE
2	TO BE ARRANGED		
461	TEACH TECH AND MAT	02.0 CR	
1	TO BE ARRANGED		GRIZZELL
468	MUSIC PRODUCTIONS	02.0 TO 12.0 CR	
1	TO BE ARRANGED		LAWRENCE
481	READINGS IN THEORY	02.0 TO 06.0 CR	
1	TO BE ARRANGED		MUELLER ROBERT E
482	READ IN HIST + LIT	02.0 TO 06.0 CR	
1	TO BE ARRANGED		MORGAN WESLEY K
483	READ IN MUS EDUC	02.0 TO 06.0 CR	
1	TO BE ARRANGED		MCHUGH CATHERINE
499	INDEPENDENT STUDY	01.0 TO 12.0 CR	
	PREREQ CONSENT OF INSTRUCTOR		
1	TO BE ARRANGED		MCHUGH CATHERINE
502B	ANALYTIC TECHNIQUES	02.0 CR	
1	02.00	1 TH	ALTG 106
507	19TH CENTURY MUSIC	03.0 CR	MUELLER ROBERT E
1	10.00	TW F	ALTG 106
522	SEM MUS HIST-LIT	03.0 CR	BARWICK STEVEN
1	12.00	M W F	LIB 117
531	ADV COMPOSITION	02.0 TO 09.0 CR	DENKER
	PREREQ 312C, 342C, AND CONSENT OF INSTRUCTOR		
1	TO BE ARRANGED		BOTTJE WILL G
535	CONTEMPORARY IDICMS	03.0 CR	
1	09.00	M W F	ALTG 115
540A	PRIV APP MUS-VIOLIN	01.0 TO 04.0 CR	BOTTJE WILL GAY
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE ARRANGED		LEVINSON HERBERT L
2	TO BE ARRANGED		KARTMAN MYRON H
3	TO BE ARRANGED		WHARTON JOHN S
	RESTRICTED - SEE NOTE BELOW		
540B	PRIV APP MUS-VIOLA	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE ARRANGED		BABER JOSEPH W
	RESTRICTED - SEE NOTE BELOW		
540C	PRIV APP MUS-CELLO	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE ARRANGED		COWLEY DAVID
	RESTRICTED - SEE NOTE BELOW		
540D	PRIV APP MUS-STRING	01.0 TO 04.0 CR	
	PREREQ 3 QTRS AT PREVIOUS LEVEL ON SAME INSTR OR CONSENT		
1	TO BE ARRANGED		COWLEY DAVID
	RESTRICTED - SEE NOTE BELOW		

540E	PRIV APP MUS-FLUTE	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		RESNICK ROBERT S
	RESTRICTED-SEE NOTE BELOW		
2	TO BE ARRANGED		BOTTJE WILL G
	RESTRICTED - SEE NOTE BELOW		
540F	PRIV APP MUS-OBOE	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		FUSSEY GEORGE A
	RESTRICTED - SEE NOTE BELOW		
540G	PRIV APP MUS-CLAR	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		RESNICK ROBERT S
2	TO BE ARRANGED		INTRAVIA L
	RESTRICTED - SEE NOTE BELOW		
540H	PRIV APP MUS-BASSON	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		INTRAVIA LAWRENCE J
	RESTRICTED - SEE NOTE BELOW		
540I	PRIV APP MUS-SAX	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		RESNICK ROBERT S
2	TO BE ARRANGED		FUSSEY GEORGE A
	RESTRICTED - SEE NOTE BELOW		
540J	PRIV APP MUS-PERCUS	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		FLOYD SAMUEL
	RESTRICTED - SEE NOTE BELOW		
540K	PRIV APP MUS-PIANO	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		GRIZZELL MARY JANE
2	TO BE ARRANGED		DENKER FRED H
3	TO BE ARRANGED		BARWICK STEVEN
4	TO BE ARRANGED		MUELLER ROBERT E
5	TO BE ARRANGED		WERNER WARREN KENT
	RESTRICTED - SEE NOTE BELOW		
540L	PRIV APP MUS-F HORN	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		NADAF GEORGE
	RESTRICTED - SEE NOTE BELOW		
540M	PRIV APP MUS-TRUMP	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		LEMASTERS DONALD D
2	TO BE ARRANGED		CLSSON PHILLIP H
	RESTRICTED - SEE NOTE BELOW		
540N	PRIV APP MUS-TRBONE	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		STIMAN HAROLD E
	RESTRICTED - SEE NOTE BELOW		
540O	PRIV APP MUS-TUBA	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		STIMAN HAROLD E
	RESTRICTED SEE NOTE BELOW		
540P	PRIV APP MUS-BATONE	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	
1	TO BE ARRANGED		STIMAN HAROLD E
	RESTRICTED - SEE NOTE BELOW		
540Q	PRIV APP MUS-VOICE	01.0 TO 04.0 CR	
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON	
		SAME INSTR OR CONSENT	

1	TO BE ARRANGED				KAGEFF
2	TO BE ARRANGED				TAYLOR WILLIAM KLET
3	TO BE ARRANGED				LAWRENCE MARJORIE
4	TO BE ARRANGED				WALLACE MARY
	RESTRICTED - SEE NOTE BELOW				
540R	PRIV APP MUS-ORGAN	01.0 TO 04.0 CR			
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON			
		SAME INSTR OR CONSENT			
1	TO BE ARRANGED				WEBB MARY ANN V
	RESTRICTED - SEE NOTE BELOW				
540S	PRIV APP MUS-HARPCH	01.0 TO 04.0 CR			
	PREREQ	3 QTRS AT PREVIOUS LEVEL ON			
		SAME INSTR OR CONSENT			
1	TO BE ARRANGED				MORGAN WESLEY K
2	TO BE ARRANGED				BEDFORD FRANCES
	RESTRICTED - SEE NOTE BELOW				
545	PEDAGUGY-MUS THEORY	03.0 TO 09.0 CR			
1	01.00	M W F	ALTG	115	MUELLER ROBERT E
550	ADMIN + SUPERVISION			03.0 CR	
1	01.00	M W F	ALTG	248	MCHUGH
556	ADV CONDUCTING	02.0 TO 06.0 CR			
1	TO BE ARRANGED				KINGSBURY ROBERT W
2	TO BE ARRANGED				LEVINSON HERBERT L
3	TO BE ARRANGED				KOENIGSTEIN NICHOLA
566A	INST ENSEMBLE-SYMPH			01.0 CR	
1	02.00	M W F	ALTG	114	KOENIGSTEIN NICK
566B	INST ENSEMBLE-WIND			01.0 CR	
1	03.00-04.30	T TH	ALTG	114	SIENER MELVIN
566C	INST ENSEMBLE-ORCH			01.0 CR	
1	03.00-04.30	M W F	ALTG	114	KARTMAN MYRON
566D	INST ENSEMBLE-S I S			01.0 CR	
1	TO BE ARRANGED				LEVINSON HERBERT
566E	SMALL INST ENSEMBLE			01.0 CR	
1	TO BE ARRANGED				KARTMAN MYRON
567A	VOCAL ENSEMBL-CHCIR			01.0 CR	
1	04.00-05.30	T TH	ALTG	115	KINGSBURY ROBERT
567B	VOCAL ENSEMBL-CHCRU			01.0 CR	
1	07.30-09.45 PM	M	H EC	140B	KINGSBURY ROBERT
567C	VOCAL ENSEMBL-M G C			01.0 CR	
1	08.00-09.30 PM	T TH	ALTG	115	KINGSBURY ROBERT
567D	VOCAL ENSEMBL-W C E			01.0 CR	
1	03.00	M W F	ALTG	115	TAYLOR C
567E	VOCAL ENSEMBL-SMALL			01.0 CR	
1	TO BE ARRANGED				KINGSBURY ROBERT
568	OPERA WORKSHOP	02.0 TO 12.0 CR			
1	03.00	T TH	ALTG	115	LAWRENCE MARJORIE
	03.00-04.50	F	ALTG	115	LAWRENCE MARJORIE
	07.00-10.00 PM	WTH	ALTG	116	LAWRENCE MARJORIE
599	THESIS	03.0 TO 09.0 CR			
1	TO BE ARRANGED				GORDON RUDERICK D

Music 140, 240, 340 and 440:

All registrants should be entered on rosters kept by Mr. Wharton and their cards should bear his signature

Philosophy (PHIL)

301	PHIL OF RELIGION			04.0 CR	
1	11.00	MTWTH	H EC	208	HOWIE
340	ELEM ETHICS			04.0 CR	
1	03.00	MTWTH	H EC	206	
345	BLACK SOCIAL PHIL			03.0 CR	
	PREREQ	JR STANDING OR PERMISSION OF			
		DEPT			
1	03.00	T THF	H EC	203	ALLEN
360	PHIL OF ART			04.0 CR	
1	04.00-05.50	M W	H C	202	BARALT LUIS
460	ADV PHIL OF ART			04.0 CR	
1	07.35-09.15 PM	T TH	H EC	208	TENNEY CHARLES D
481B	19TH CEN EUROP PHIL			03.0 CR	
1	09.00	M W F	H EC	208	LEYS WAYNE A R

490	SPECIAL PROBLEMS	02.0 TO 05.0 CR			
	PREREQ CONSENT OF INS IN ALL CASE REQUIRED				
1	TO BE ARRANGED				HAHN LEWIS EDWIN
	OFFERED FOR 2.0 TO 5.0 CREDITS				
2	04.00-06.30 F H EC	211			LIU
	ORIENTAL PHILOSOPHY OFFERED FOR 3.0 CREDITS				
3	07.00-09.30 PM T H EC	211			MCKENZIE
	PRE-SOCRATIC OFFERED FOR 3.0 CREDITS				
4	07.00-09.30 PM M H C	202			SCHILPP
	CONTEMPORARY MIND OFFERED FOR 3.0 CREDITS				
497B	HONORS	04.0 CR			
	PREREQ 497A				
1	04.00-06.30 W H EC	211			
530	SEM THEORY KNOWL	03.0 CR			
1	04.00-06.30 W H EC	208			MCCLURE GEORGE T
588	SEMINAR IN KANT	03.0 CR			
1	07.00-09.30 PM W H EC	208			PLOCHMANN
589	GEN GRAD SEMINAR	03.0 CR			
	PREREQ CONSENT OF INSTR				
1	04.00-06.30 T H EC	208			EAMES E
	SEMINAR IN MEAD				
590	GEN GRAD SEMINAR	02.0 TO 12.0 CR			
1	TO BE ARRANGED				HAHN
2	04.00-06.30 M H EC	211			HUSSERL
	OFFERED FOR 3.0 CREDITS				
3	07.00-09.30 PM M H EC	208			MARX
	OFFERED FOR 3.0 CREDITS				
4	07.00-09.30 PM TH H EC	208			CLARKE
	LANG + PHILOSOPHIC METHODS FOR 3.0 CREDITS				
591	READINGS IN PHIL	01.0 TO 05.0 CR			
	PREREQ CONSENT OF INSTR				
1	TO BE ARRANGED				HAHN LEWIS EDWIN
599	THESIS	02.0 TO 09.0 CR			
1	TO BE ARRANGED				HAHN LEWIS EDWIN
600	DISSERTATION	03.0 TO 48.0 CR			
1	TO BE ARRANGED				HAHN LEWIS EDWIN

Physical Education for Men (PEM)

100A	M TEACH SWIMMING	01.0 CR			
	PREREQ IF NONSWIMMER--AUDIT GSE 100A				
	BEG SWIM				
1	08.00 M W F	PULL	11		ESSICK RAYMOND B
2	08.00-09.30 T TH	PULL	11		ESSICK
3	09.00 M W F	PULL	11		ESSICK RAYMOND B
100E	M TCH BASIC RHYTHMS	01.0 CR			
1	08.00 M W F	ARENA	555		FRANKLIN C C JR
2	09.00 M W F	ARENA	555		FRANKLIN C C JR
100F	M TCH EXER-FITNESS	01.0 CR			
1	10.00 M W	ARENA	555		GOOD
	10.00 F	ARENA	125		GOOD
2	12.00 M W	ARENA	555		GOOD LARRY
	12.00 F	ARENA	125		BELL
3	02.00-03.30 T TH	PULL	102		
100H	M TEACH BASKETBALL	02.0 CR			
1	11.00 MTW F	ARENA	555		HOLDER LYNN C
100K	M TEACH GYMNASTICS	02.0 CR			
1	09.00 MTWTH	ARENA	555		MEADE WILLIAM T
2	10.00 MTWTH	ARENA	555		MEADE WILLIAM T
100M	M TEACH WRESTLING	02.0 CR			
1	08.00 M W	ARENA	125		LONG LINN L
	08.00 T TH	ARENA	555		
2	09.00 M W	ARENA	123		LONG LINN L
	09.00 T TH	ARENA	555		
101	ORIENT-PRACT P E	02.0 CR			
1	01.00 M W	ARENA	123		MARTIN MORRIS GLENN
2	01.00 T TH	ARENA	123		MARTIN MORRIS GLENN
171	VARSITY BASKETBALL	02.0 CR			
1	03.00 MTWTHF	ARENA	555		HARTMAN JOHN H

174	1	03.00	MTWTHF	ARENA	555	MEADE WILLIAM T
177	1	04.00	MTWTHF	PULL	11	ESSICK RAYMOND B
179	1	03.00	MTWTHF	ARENA	555	LONG LINN L
303					05.0 CR	
		PREREQ	PHSL 300			
	1	11.00	MTWTHF	LAWSON	121	GOOD LARRY
	2	03.00	MTWTHF	ARENA	125	KNOWLTON
305					02.0 CR	
		PREREQ	PHSL 300			
	1	10.00	T TH	ARENA	125	CKITA TED Y
317	1	02.00	M W F	PULL	11	CROSS-LISTED WITH
330A					02.0 CR	
		PREREQ	100H			
	1	10.00	T TH	ARENA	121	FARTMAN JOHN H
331B					02.0 CR	
		PREREQ	100I			
	1	09.00	T TH	ARENA	125	LUTZ ROLLIN J
331C					02.0 CR	
		PREREQ	100J			
	1	08.00	T TH	ARENA	125	FARTZOG
341					03.0 CR	
		PREREQ	SENIOR STANDING			
	1	09.00	M W F	ARENA	125	SHEA EDWARD J
350					03.0 CR	
	1	09.00	TH	ARENA	123	FRANKLIN
		10.00	M W	ARENA	125	FRANKLIN
		10.00	TH	ARENA	119	FRANKLIN
354					03.0 CR	
	1	12.00	M W F	ARENA	123	STOTLAR JOHN W
355					02.0 CR	
	1	06.00-07.25 PM	M	ARENA	125	WILKINSON JAMES J
		LAB TO BE ARRANGED				
	2	07.00	PM M	ARENA	125	WILKINSON JAMES J
		LAB TO BE ARRANGED				
370					03.0 TO 04.0 CR	
	1	01.00	MTWTH	ARENA	125	FRANKLIN
376					03.0 CR	
		PREREQ	PHSL 300			
	1	12.00	MTWTH	ARENA	125	SPACKMAN ROBERT R
400					04.0 CR	
	1	07.00-09.30 PM	W	GYM	204	WEST
		CROSS-LISTED WITH PE# 40C				
406					04.0 CR	
	1	07.00-09.30 PM	TH	ARENA	125	SHEA EDWARD J
		CROSS-LISTED WITH PE#				
408					02.0 TO 04.0 CR	
	1	07.00-09.30 PM	T	ARENA	125	AKERMAN KENNETH
		CROSS-LISTED WITH PE# 408				
420					04.0 CR	
	1	02.00	MTWTH	ARENA	125	
		PREREQ	GSA 301 UNDERGRADUATES ONLY			
475A					02.0 TO 04.0 CR	
	1					
475B					02.0 TO 04.0 CR	
	1					
475C					02.0 TO 04.0 CR	
	1					
475D					02.0 TO 04.0 CR	
	1					
475E					02.0 TO 04.0 CR	
	1					
475F					02.0 TO 04.0 CR	
	1					
		CROSS-LISTED WITH PE# 502				
504					04.0 CR	
		PREREQ	500			
	1					
525					01.0 TO 06.0 CR	
	1					SHEA EDWARD J
		TO BE ARRANGED				

599	THESIS	01.0 TO 09.0 CR	
1	TO BE ARRANGED		KNOWLTON RONALD G
600	DISSERTATION	02.0 TO 48.0 CR	
1	TO BE ARRANGED		SHEA EDWARD J

Physical Education for Women (PEW)

113	FUND OF BODY MOVE	01.0 CR	
1	11.00 M W F GYM	207	BRECHTELSBAUER
2	02.00 M W F GYM	207	
224	BASKETBALL	01.0 CR	
1	10.00-11.30 T TH GYM	207	THORPE JOANNE LEE
2	11.00-12.50 T TH GYM	207	THORPE JOANNE LEE
230	TECHNIQUES BALLET	02.0 TO 24.0 CR	
1	04.00-05.30 M W 0813	101	DAVIDSON ELLEVA J
	04.00 F 0813	101	
	CROSSLISTED WITH THEATRE 230		
240	THEO-TECH CONT DNCE	02.0 TO 24.0 CR	
1	02.00-03.40 MTWTH 0813	101	GRAY WINSTON G
	CROSS-LISTED WITH THEATRE 240		
242	SQUARE SOCIAL DANCE	01.0 CR	
1	10.00 M W F GYM	114	HOLT ALYCE
2	11.00 M W F GYM	114	HOLT ALYCE
273	DANCE WORKSHOP	01.0 TO 02.0 CR	
1	07.00-09.30 PM T TH 0813	101	GRAY
	CROSSLISTED WITH THEATRE 273		
304C	TECH-TEACH SPORTS	02.0 CR	
1	01.00 M W GYM	207	WEST CHARLOTTE
304D	TECH-TEACH SPORTS	02.0 CR	
1	01.00 T THF GYM	207	STEHR + VOGEL
309	TEACHING DANCE	05.0 CR	
	PREREQ PEW 212, 222, CR EQUIV		
1	08.00 MTWTHF GYM	204	DAVIES DOROTHY
2	08.00 MTWTHF 0813	101	DAVIDSON
311B	TH OFFIC BASKETBALL	01.0 CR	
1	09.00 F GYM	204	BRECHTELSBAUER KAY
313	DANCE PRODUCTION	04.0 CR	
	PREREQ GSE 113E CR CONSENT OF INSTR		
1	04.00-05.50 T TH 0813	101	GRAY WINSTON G
	CROSSLISTED WITH THEATRE 313		
317	LIFE SAV WATER SAFE	01.0 CR	
	PREREQ PASS INTERMED SWIM TEST		
1	02.00 M W F PULL	11	CCOPER CAROL
	CROSSLISTED WITH PEM 317		
319	TCHG ELEM SCH ACT	04.0 CR	
	PREREQ PSYC 301 CR GUID 305		
1	11.00 MTWTH GYM	208	POTTER
2	12.00 MTWTH GYM	208	POTTER
3	03.00 MTWTH GYM	208	HOLT ALYCE
4	04.00-05.50 M W GYM	208	ZIMMERMAN HELEN
5	04.00-05.50 T TH GYM	208	ZIMMERMAN HELEN
351	REC FOR ATYPICAL	04.0 CR	
1	09.00 MTWTH GYM	204	COTTEN SARAH ELLEN
400	EVALUATION IN PE	04.0 CR	
1	07.00-09.30 PM W GYM	204	WEST
	CROSSLISTED WITH PEM 400		
406	BASIC CONCEPTS P E	04.0 CR	
1	07.00-09.30 PM TH ARENA	125	SHEA
	CROSS-LISTED WITH PEM 406		
408	PHY FIT RLE-APPL ED	04.0 CR	
1	07.00-09.30 PM T ARENA	125	GOOD
	CROSS-LISTED WITH PEM 408		
475A	IND RES-DANCE	02.0 TO 04.0 CR	
1	TO BE ARRANGED		GRAY WINSTON G
475B	IND RES-KINESIOLOGY	02.0 TO 04.0 CR	
1	TO BE ARRANGED		THORPE
475C	IND RES-MEASUREMENT	02.0 TO 04.0 CR	
1	TO BE ARRANGED		WEST CHARLOTTE
475D	IND RES-MOTOR DEVEL	02.0 TO 04.0 CR	
1	TO BE ARRANGED		POTTER
475E	IND RES-PHSL OF EX	02.0 TO 04.0 CR	
1	TO BE ARRANGED		KNOWLTON
475F	IND RES-HIST + PHIL	02.0 TO 04.0 CR	
1	TO BE ARRANGED		GOOD

504	PROBLEMS IN PE	04.0 CR	
	PREREQ PEW 500 CR EQUIV		
1	TO BE ARRANGED		
513	MOTOR LRNG-PHY SKIL	04.0 CR	
	PREREQ GRADUATE STUDENT AND CONSENT O		
	F INSTRUCTOR		
1	07.00-09.30 PM M	GYM	204
	CROSS-LISTED WITH PEM 513		
525	READINGS	01.0 TO 06.0 CR	
	PREREQ CONSENT OF INSTR AND DEPT		
	CHAIRMAN		
1	TO BE ARRANGED		
599	THESIS	01.0 TO 09.0 CR	
1	TO BE ARRANGED		
600	DISSERTATION	02.0 TO 12.0 CR	
1	TO BE ARRANGED		

Physics (PHYS)

111B	COLLEGE PHYSICS	03.0 CR	
	PREREQ MATH 111B CR H S EQUIV		
1	02.00	TWTHF	PARK 308 ZIMMERMAN J R
2	02.00	MTWTH	PARK 308
112B	COLLEGE PHYS LAB	01.0 CR	
	PREREQ CONCURRENT ENR IN PHYS 111		
1	01.00-03.50	M	PHY SC 405 HAAK RICHARD A
2	01.00-03.50	F	PHY SC 405
206A	COLLEGE PHYSICS	03.0 CR	
	PREREQ MATH 111B		
1	08.00	M W F	PARK 309 LEFEBVRE GERALD M
	08.00	T	PARK 301
206B	COLLEGE PHYSICS	03.0 CR	
	PREREQ PHYS 206A CR 206C		
1	11.00	M W F	PARK 308 SAPCROSCHENKO MYKON
	11.00	T	PARK 301 SAPCROSCHENKO MYKON
2	11.00	M W F	PARK 308 SAPOROSCHENKO MYKON
	11.00	TH	PARK 301 SAPCROSCHENKO MYKON
3	12.00	MTW F	PARK 308
4	12.00	M WTHF	PARK 308
206C	COLLEGE PHYSICS	03.0 CR	
	PREREQ PHYS 206B CR 206A		
1	12.00	M WTHF	PARK 309 PEARSON EDWIN F
207A	COLLEGE PHYS LAB	01.0 CR	
	PREREQ CONCURRENT ENR IN PHYS 206		
1	10.00-12.50	TH	PHY SC 403
207B	COLLEGE PHYS LAB	01.0 CR	
	PREREQ CONCURRENT ENR IN PHYS 206		
1	08.00-10.50	T	PHY SC 405
2	08.00-10.50	TH	PHY SC 405
3	01.00-03.50	TH	PHY SC 405
4	01.00-03.50	W	PHY SC 405
5	06.00-08.50 PM M		PHY SC 405
207C	COLLEGE PHYS LAB	01.0 CR	
	PREREQ CONCURRENT ENR IN PHYS 206		
1	02.00-04.50	T	PHY SC 407
211A	UNIVERSITY PHYSICS	05.0 CR	
	PREREQ MATH 150B (OR EQUIVALENT)		
1	09.00	M W F	PARK 308
	08.00-09.50	T	PHY SC 403
	10.00	T TH	PARK 309
2	09.00	M W F	PARK 308
	01.00	T TH	PARK 301
	08.00-09.50	TH	PHY SC 403
3	09.00	M W F	PARK 308
	09.00	T TH	PARK 309
	10.00-11.50	T	PHY SC 403
211B	UNIVERSITY PHYSICS	05.0 CR	
	PREREQ PHYS 211A CR 211C		
1	08.00	M W F	PARK 308
	08.00-09.50	S	PHY SC 405
	08.00	T TH	PARK 308
2	08.00	M W F	PARK 308
	11.00-12.50	T	PHY SC 405
	08.00	T TH	PARK 309

3	08.00	M W F	PARK	308	
	11.00-12.50	TH	PHY SC	405	
	01.00	T TH	PARK	308	
4	01.00	M W F	PARK	308	
	02.00-03.50	T	PHY SC	405	
	01.00	T TH	PARK	309	
5	01.00	M W F	PARK	308	
	04.00-05.50	TH	PHY SC	405	
	06.00	PM T TH	PARK	308	
211C	UNIVERSITY PHYSICS			05.0 CR	
	PREREQ	PHYS 211A	CR 211B		
1	11.00	M W F	PARK	309	
	11.00	T TH	PARK	309	
	04.00-05.50	TH	PHY SC	407	
2	11.00	M W F	PARK	309	
	11.00	T TH	PARK	308	
	12.00-01.50	F	PHY SC	407	
300	UNIVERSITY PHYS IV			05.0 CR	
	PREREQ	PHYS 111	206 OR PHYS 211		
1	03.00	M W F	PARK	308	CHANG-FANG CHUEN-C
	03.00	TH	PHY SC	116	CHANG-FANG CHUEN-C
	04.00-05.50	TH	PHY SC	404	
	03.00	T	PARK	301	
2	03.00	M W F	PARK	308	CHANG-FANG CHUEN-C
	03.00	TH	PHY SC	116	CHANG-FANG CHUEN-C
	04.00-05.50	F	PHY SC	404	
	03.00	T	PARK	301	
	CROSS-LISTED WITH AP S				
305B	INTRO ELEC THEORY			03.0 CR	
	PREREQ	MATH 305A	CR CCNS INSTR + PHYS		
		111 OR 206 OR 211			
1	02.00	M W F	PARK	309	PEARSON EDWIN F
309	ELECTRIC CIRCUITS			03.0 CR	
	PREREQ	PHYS 111C	CR 206C OR 211C		
1	10.00	M W F	PARK	309	CUTNELL JOHN D
310	LIGHT			03.0 CR	
	PREREQ	PHYS 111B	CR 206B OR 211B		
1	03.00	M W F	PARK	309	CARRELL JOHN CRAIG
311	OPTICS LAB			01.0 CR	
	PREREQ	PHYS 310	CR CONCURRENT ENR IN		
		PHYS 310			
1	02.00-04.50	T	PHY SC	404	CARRELL JOHN
2	02.00-04.50	TH	PHY SC	404	CARRELL JOHN
312	ELEC CIRC LAB			02.0 CR	
	PREREQ	PHYS 309			
1	09.00-11.50	T TH	PHY SC	406	WATSON RICHARD
2	02.00-04.50	T TH	PHY SC	406	CUTNELL JOHN
404A	PHYSICAL ELECTRONIC			03.0 CR	
	PREREQ	PHYS 304, 305, AND 401	OR		
		CONSENT OF INSTR			
1	01.00	M W F	TECH A	120	ZITTER ROBERT
410A	INTRO TO EM WAVE TH			03.0 CR	
	PREREQ	PHYS 305 AND 310			
1	11.00	M W F	TECH A	122	CDWYER JOHN J
415C	MODERN PHYSICS			03.0 CR	
	PREREQ	PHYS 415B			
1	08.00	M W F	PARK	301	SULLIVAN JOHN J
418	MOD PHYSICS LAB		01.0 TO 04.0 CR		
1	TO BE ARRANGED				ZITTER ROBERT N
420	SPECIAL PROJECTS I		02.0 TO 05.0 CR		
	PREREQ	PHYS 301 AND 305			
1	TO BE ARRANGED				MARSHALL LAURISTON
449B	SERV INST-PHYS TEAC		01.0 CR		
1	09.00-11.50	S	PARK	301	NICKELL WM E
504B	X-RAY DIFF LAT DYN			04.0 CR	
	PREREQ	PHYS 504A			
1	11.00	M W	TECH B	109	CANUT MARISA L
	10.00-11.50	TH	TECH B	109	CANUT MARISA L
	CROSS-LISTED WITH AP S				
510B	CLASSICAL MECHANICS			03.0 CR	
	PREREQ	PHYS 510A			
1	08.00	M W F	TECH A	122	ZITTER ROBERT N

511B	MATH METH OF PHYS		03.0 CR	
	PREREQ PHYS 511A			
1	09.00	M W F	PARK 301	CDWYER JOHN J
520	SPECIAL PROJECTS		02.0 TO 05.0 CR	
	PREREQ CONSENT CF INSTR			
1	TO BE ARRANGED			ZIMMERMAN J R
530B	ELECTROMAG THEORY		03.0 CR	
	PREREQ PHYS 530A			
1	11.00	M W F	PHY SC 410	
531B	QUANTUM MECHANICS		03.0 CR	
	PREREQ PHYS 531A			
1	10.00	M W F	PARK 301	
532B	ADV QUANTUM MECH		03.0 CR	
	PREREQ PHYS 532A			
1	11.00	M W F	PARK 301	
550B	AT AND MOL SPECTRA		03.0 CR	
	PREREQ PHYS 550A			
1	12.00	M W F	PHY SC 410	
560B	STAT MECHANICS		03.0 CR	
	PREREQ PHYS 560A			
1	09.00	M W F	PHY SC 410	BCSE SUBIR K
570B	SOLID STATE PHYS		03.0 CR	
	PREREQ PHYS 570A			
1	10.00	M W F	PHY SC 410	
575	GRAD SEMINAR		01.0 TO 04.0 CR	
1	03.00-04.50	M	PARK 308	
580	SEL TOPICS PHYS		03.0 TO 06.0 CR	
1	TO BE ARRANGED			
590	THESIS		01.0 TO 09.0 CR	
1	TO BE ARRANGED			

Physiology (PHSL)

300	HUMAN ANATOMY		04.0 CR	
1	11.00	MTWTH	LS I 16	FOOTE FLORENCE
2	01.00	MTWTH	LS I 16	MICKUS
315B	ADV COLLEGE PHSL		05.0 CR	
	PREREQ PHSL 315B			
1	08.00	M W F	LS I 113	KAPLAN H M
	08.00-09.50	T TH	LS I 113	
2	08.00	M W F	LS I 113	
	10.00-11.50	M W	LS I 113	
410B	ADVANCED ANATOMY		05.0 CR	
1	02.00-03.50	M WTHF	LS I 18	FOOTE FLORENCE
414	PHYSIOL OF SPEECH		04.0 CR	
1	10.00	MT TH	LS I 113	KAPLAN H M
	10.00-11.50	F	LS I 113	
	CROSS-LISTED WITH SP+A			
417B	PRIN PHARMACOLOGY		03.0 CR	
	PREREQ PHSL 417A			
1	10.00	M W	PULL 41	GASS GEORGE HIRAM
	10.00-11.50	F	LS I 120	GASS GEORGE HIRAM
430B	CELLULAR PHYSIOLOGY		04.0 CR	
1	09.00	M	WHAM 137	DUNAGAN T T
	02.00-03.50	T	LS I 120	
	09.00	F	AG 152	
	ADDITIONAL MEETING TBA AT 9 00 W			
450	SPECIAL PROBLEMS		04.0 TO 16.0 CR	
	PREREQ CONSENT CF DEPT			
1	02.00-03.50	M W F	LS I 111	
	08.00-09.50	S	LS I 111	
460B	MAMMALIAN PHSL		04.0 CR	
	PREREQ PHSL 460A			
1	08.00	M W F	LS I 113	KAPLAN H M
	08.00-09.50	T TH	LS I 113	
2	08.00	M W F	LS I 113	
	10.00-11.50	M W	LS I 113	
465B	BIOPHYSICS		03.0 CR	
	PREREQ PHSL 465A			
1	09.00	M W F	AG 220	RICHARDSON ALFRED W
471B	BIOPHYS INST		03.0 CR	
	PREREQ PHSL 471A			
1	10.00	T THF	STAD 5	RICHARDSON ALFRED W

500	ADV SEMINAR	01.0 TO 09.0	CR		
1	12.00	M	LS I	205	DUNAGAN
520B	PHSL TECHNIQUES	03.0	CR		
	PREREQ PHSL 520A				
1	08.00	T TH	AG	188	DUNAGAN T T
	02.00-03.50	TH	LS I	120	
521	PHYSIOLOGY READINGS	01.0 TO 06.0	CR		
	PREREQ CONSENT CF DEPT				
1	TO BE ARRANGED				
540A	ADV COMPAR PHYSIOL	04.0	CR		
	PREREQ BACKGROUND IN CHEM AND BIO SCIENCES				
1	01.00	M	LAWSON	121	MILLER DONALD M
	01.00	W	CL	109	MILLER DONALD M
	01.00	F	LS I	16	
	02.00-03.50	M	LS I	120	
599	THESIS	03.0 TO 09.0	CR		
1	03.00-04.50	MTWTHF	LS I	111	
600	DISSERTATION	04.0 TO 36.0	CR		
1	03.00-04.50	MTWTHF	LS I	111	

Plant Industries (PL I)

109	PRIN-FIELD CROP PRC	04.0	CR		
1	01.00	MTW	AG	214	ELKINS DONALD M
	09.00-10.50	TH	AG	171	ELKINS DONALD M
2	01.00	MTW	AG	214	ELKINS DONALD M
	01.00-02.50	TH	AG	171	ELKINS DONALD M
264	GEN HORTICULTURE	04.0	CR		
1	09.00	M W F	AG	154	HILLYER IRVIN GEORGE
	08.00-09.50	TH	AG	181	HILLYER IRVIN GEORGE
2	09.00	M W F	AG	154	HILLYER IRVIN GEORGE
	10.00-11.50	TH	AG	181	HILLYER IRVIN GEORGE
301	SOIL SCI-FORESTERS	05.0	CR		
	PREREQ GSA 101B				
1	12.00	M WTHF	AG	166	JONES JOE H
	08.00-09.50	T	AG	157	
2	12.00	M WTHF	AG	166	JONES JOE H
	12.00-01.50	T	AG	157	
3	03.00	MTWTH	AG	214	CASTER
	08.00-09.50	F	AG	157	
4	03.00	MTWTH	AG	214	CASTER
	01.00-02.50	F	AG	157	
324	ORCHARDING	04.0	CR		
	PREREQ PL I 264, GSA 201B OR CONCURRENT				
1	11.00	M W F	AG	154	MOWRY JAMES B
	11.00-12.50	TH	AG	171	MOWRY JAMES B
381	AGRIC SEMINAR	01.0	CR		
	PREREQ SENIOR STANDING				
1	04.00	T	AG	214	MYERS OVAL JR
390	SPEC STUD PLANTS	01.0 TO 06.0	CR		
	PREREQ CONSENT CF DEPT CHAIRMAN				
1	09.00-11.50	S	AG	171	CORTS GERALD D
401	SOIL PHYSICS	04.0	CR		
	PREREQ PL I 301				
1	03.00	M W F	AG	158	JONES JOE H
	02.00-03.50	TH	AG	167	JONES JOE H
406	RADIOISOTOPES	04.0	CR		
	PREREQ BIOCHEM, BIOPHYSICS, OR CONSENT OF DEPT				
1	09.00	M W F	AG	218	TWEEDY JAMES A
	08.00-09.50	T TH	AG	181	TWEEDY JAMES A
415	PLANT BREEDING	03.0	CR		
	PREREQ BOT 315, AN I CR ZOO 401 OR CONSENT OF INSTR				
1	04.00	M F	AG	116	MYERS OVAL JR
	03.00-04.50	T	AG	171	MYERS OVAL JR
424A	SOIL MICROBIOLOGY	03.0	CR		
	PREREQ ONE COURSE IN SCILS OR MICROBIOLOGY				
1	10.00	M W F	AG	188	VAVRA JOSEPH P

424B	SOIL MICRO LAB			02.0 CR	
	PREREQ PL I 424A	CR CCNSENT	OF DEPT		
1	12.00-01.50	T TH	AG	181	VAVRA JOSEPH P
440	PLANT PROPAGATION			03.0 CR	
	PREREQ PL I 264				
1	08.00	M W F	AG	220	CCORTS GERALD D
	08.00-09.50	TH	AG	190	CCORTS GERALD D
2	08.00	M W F	AG	220	CCORTS GERALD D
	10.00-11.50	TH	AG	190	CCORTS GERALD D
520	READINGS			01.0 TO 03.0 CR	
	PREREQ	CONSENT OF DEPT			
1	TO BE ARRANGED				
533	GRO DEV IN PLANTS			03.0 TO 04.0 CR	
	PREREQ BOT 320				
1	02.00-03.50	M W F	AG	170	CCORTS GERALD D
	ONE ADDITION HOUR IS TBA				
575	RESEARCH			01.0 TO 06.0 CR	
	PREREQ	CONSENT CF DEPT			
1	TO BE ARRANGED				
2	TO BE ARRANGED				
3	TO BE ARRANGED				
581	SEMINAR			01.0 CR	
1	04.00	T	AG	181	TWEEDY JAMES A
599	THESIS			01.0 TO 09.0 CR	
1	TO BE ARRANGED				

Presidents Scholars (PR S)

399	HONORS PAPER			02.0 TO 06.0 CR	
	PREREQ	APPROVAL CF PRES SCHOL PROG +			
		DEPT CONCERNED			
1	TO BE ARRANGED				
499	UNDERGRAD HON THES			03.0 TO 09.0 CR	
	PREREQ	APPROVAL CF PRES SCHOL PROG +			
		DEPTS CONCERNED			
1	TO BE ARRANGED				

Psychology (PSYC)

211A	PRIN-METH OF PSYC			04.0 CR	
	PREREQ	GSB 201C			
1	08.00	M W F	LAWSON	101	
	08.00-09.50	T	AG	224	
2	08.00	M W F	LAWSON	101	
	08.00-09.50	TH	AG	224	
211B	PRIN-METH OF PSYC			04.0 CR	
	PREREQ	211A			
1	10.00	M W F	AG	216	RADTKE
	10.00-11.50	T	AG	188	
2	10.00	M W F	AG	216	RADTKE
	10.00-11.50	TH	AG	150	
3	03.00	M W F	AG	224	IRWIN D
	03.00-04.50	T	COMM	1017	
4	03.00	M W F	AG	224	IRWIN D
	03.00-04.50	TH	AG	224	
301	CHILD PSYCH			04.0 CR	
	PREREQ	GSB 201C			
1	11.00	TWTHF	LAWSON	201	
2	02.00	MTWTH	LAWSON	201	WENDT RACHEL
304	PSYCH MATURE-OLD AGE			04.0 CR	
	PREREQ	GSB 201C			
1	12.00	MTWTH	WHAM	308	WENDT RACHEL
305	PSYCH PERSONALITY			04.0 CR	
	PREREQ	GSB 201C			
1	09.00	T TH	AG	214	FNATIONW
	09.00	M	PULL	38	
	09.00		F	LAWSON	201
2	03.00	M W F	LAWSON	231	HARREN
	03.00	TH	LAWSON	201	
307	SOCIAL PSYCHOLOGY			04.0 CR	
	PREREQ	GSB 201C			
1	04.00	MTWTH	PARK	204	
311	EXP PSYCH LEARN			04.0 CR	
	PREREQ	PSYC 211B			

1	03.00	M W F	PULL	39	MELTZER DONALD
	03.00-04.50	TH	0423	101	
313	EXP PSYC MOTIV			04.0	CR
	PREREQ PSYC 211B				
1	09.00-10.50	M W	AG	224	MCHCSE
314	EXP PSYC COMP PHYS			04.0	CR
	PREREQ PSYC 211B				
1	11.00	M W F	PULL	43A	LEVITT ROBERT A
	10.00-11.50	TH	PULL	43	LEVITT ROBERT A
320	INDUSTRIAL PSYCH			04.0	CR
	PREREQ GSB 201C				
1	08.00-09.50	T TH	0875	101	HILL
322	PERSONNEL PSYCH			04.0	CR
	PREREQ GSB 201C				
1	08.00-09.50	M W	LAWSON	201	HILL
323	PSYC-EMPLOYEE RELAT			04.0	CR
	PREREQ GSB 201C				
1	03.00-04.50	T TH	LAWSON	231	WESTBERG
399B	RES + INV - HONORS			01.0 TO 12.0	CR
	PREREQ CONSENT OF DEPT CHAIRMAN				
1	10.00-11.50	T	WHAM	212	EHRENFREUND DAVID
404	THEORIES OF PERCEP			04.0	CR
	PREREQ PSYC 211B CR CONSENT OF INSTR				
1	10.00-11.50	T TH	AG	218	LIT ALFRED
421	PSYCH TESTS + MEAS			04.0	CR
	PREREQ 8 HRS OF PSYC				
1	08.00-09.50	M W	0861	101	RAYNARD
431	PSYTOPATHOLOGY			04.0	CR
	PREREQ 305 OR CONSENT OF INSTR				
1	03.00-04.50	M TH	PARK	111	EVATION MICHAEL JR
440	TH OF PERSONALITY			04.0	CR
	PREREQ PSYC 305 CR CONSENT OF INSTR				
1	01.00	M W F	LAWSON	231	SCHILL THOMAS
	01.00	TH	LAWSON	131	SCHILL THOMAS
461	ADV SOCIAL PSYCH			04.0	CR
	PREREQ PSYC 307 CR CONSENT OF INSTR				
1	08.00-09.50	W	CL	24	MITCHELL THOMAS O
	08.00-09.50	F	WHAM	202	MITCHELL THOMAS O
490	INDEPEN PROJECTS			01.0 TO 16.0	CR
	PREREQ CONSENT OF INSTR AND DEPT CHAIRMAN				
1	TO BE ARRANGED				
495	SELECTED TOPICS			01.0 TO 18.0	CR
	PREREQ CONSENT OF DEPT				
1	TO BE ARRANGED				
2	08.00-09.50	T TH	TECH A	122	MITCHELL
	BLACK STUDIES - 4 CR				
514B	PHYSIOLOGICAL PSYCH			04.0	CR
	PREREQ PSYC 514A				
1	10.00-11.50	S	H EC	122A	LEVITT ROBERT A
	09.00	M W F	H EC	122A	LEVITT ROBERT A
516	LEARNING PROCESSES			04.0	CR
	PREREQ CONSENT OF INSTR				
1	08.00-09.50	T TH	WHAM	137	MELTZER DONALD
525	MENTAL TEST THEORY			04.0	CR
	PREREQ PSYC 524				
1	03.00-04.50	M TH	AG	218	EVANSON
536	FUND OF COUNSELING			04.0	CR
	PREREQ CONSENT OF INSTR				
1	11.00	MTW F	AG	150	MACLEAN G DONALD
539	EXPER PSYCHOTHERAPY			04.0	CR
	PREREQ PSYCH 536, 537, OR CONSENT OF INSTRUCTOR				
1	11.00	MTW F	PULL	43	LADD CLAYTON EUGENE
541	PSYCHODIAGNOSTICS I			04.0	CR
	PREREQ CONSENT OF INSTRUCTOR				
1	04.00	MT TH	WHAM	301A	CDONNELL
	03.00-04.50	W	WHAM	301A	
543B	PSYCHODIAGNOSTIC II			02.0	CR
	PREREQ PSYC 543A				
1	09.00-10.50	M	AG	170	SCHILL THOMAS
	10.00	W	AG	170	SCHILL THOMAS

545	PSYCHODIAG III			02.0 CR	
	PREREQ	CONSENT CF INSTR			
1	01.00-02.50	F	WHAM	301B	BRODSKY STANLEY L
552	EXP CHILD PSYCH			04.0 CR	
	PREREQ	PSYC 451 CR	CONSENT OF INSTR		
1	01.00-02.50	M W	AG	152	RAFFERTY JANET
573	SELECTION-PLACEMENT			02.0 CR	
	PREREQ	PSYC 524 CR	CONSENT OF INSTR		
1	03.00-04.50	T	AG	218	FURCELL THOMAS DAVID
590	READINGS-PSYC			01.0 TO 16.0 CR	
	PREREQ	CONSENT CF DEPT			
1	TO BE ARRANGED				
591	RESEARCH IN PSYC			01.0 TO 36.0 CR	
	PREREQ	CONSENT CF DEPT			
1	TO BE ARRANGED				
593E	PRACT-CLIN PSYC			01.0 TO 18.0 CR	
	PREREQ	CONSENT CF INSTR IN CHARGE			
1	TO BE ARRANGED				RADER
	ADVANCED STUDENTS				
2	01.00-02.50	TH	0481	202	RINGLETTTE
3	01.00-02.50	TH	0481	202	SHOEMAKER DONALD J
593F	PRACT-COUNS PSYC			01.0 TO 18.0 CR	
	PREREQ	CONSENT CF INSTR IN CHARGE			
1	TO BE ARRANGED				SNYDER
593H	PRACT-INDUST PSYC			01.0 TO 18.0 CR	
	PREREQ	CONSENT CF INSTR IN CHARGE			
1	TO BE ARRANGED				WESTBERG WILLIAM C
593J	PRACT-CHILD PSYC			01.0 TO 18.0 CR	
	PREREQ	CONSENT CF INSTR IN CHARGE			
1	TO BE ARRANGED				CDONNELL JAMES
593L	PRACT-TEACHING PSYC			01.0 TO 18.0 CR	
	PREREQ	CONSENT CF INSTR IN CHARGE			
1	TO BE ARRANGED				CARRIER NEIL ALAN
595	ADVANCED SEMINAR			01.0 TO 18.0 CR	
	PREREQ	CONSENT CF DEPT			
1	TO BE ARRANGED				
2	TO BE ARRANGED				IRWIN
3	09.00-10.50	T	PHY SC	410	HARREN VINCENT
	09.00	TH	PHY SC	410	
4	11.00-12.50	T F	H EC	122A	MCHCSE JAMES HAYDEN
5	01.00-02.50	M W	TECH A	122	RADTKE ROBERT C
6	03.00-04.50	W	AG	218	RINGUETTE
599	THESIS			01.0 TO 09.0 CR	
1	TO BE ARRANGED				
600	DISSERTATION			01.0 TO 36.0 CR	
1	TO BE ARRANGED				

Radio-Television (R - T)

161	RADIO-TV SPEAKING			04.0 CR	
1	11.00	MTWTH	COMM	1015	LYNCH
2	03.00	MTWTH	COMM	1015	HILDRETH
251	SURVEY OF BROADCAST			03.0 CR	
1	08.00	M W F	COMM	1046	BARTLETT
252	PRODUCTION ANALYSIS			03.0 CR	
1	10.00	MT TH	COMM	1046	DYBVIG
260	AUDIO CONTROL PRACT			01.0 CR	
1	12.00-01.50	T	COMM	52B	HALL
2	12.00-01.50	TH	COMM	52B	HALL
310	RADIO - TV NEWS			03.0 CR	
	PREREQ	JRNL 103, 201, 202 AND 303			
1	01.00	M W F	COMM	1015	CUGAS
351	PROGS AND AUDIENCES			05.0 CR	
	PREREQ	R-T 251			
1	02.00	MTWTHF	COMM	1046	DYBVIG
352	LAWS AND POLICIES			04.0 CR	
	PREREQ	R-T 251			
1	09.00	MTWTH	COMM	1046	RIMERMAN
361	TV ANNOUNCING			03.0 CR	
	PREREQ	R-T 161 PASSED WITH A MINIMJM			
		GRADE OF C			
1	12.00	M W F	COMM	1015	BROWN
363	RADIO PRODUCTION			04.0 CR	
	PREREQ	R-T 260			

1	10.00-11.50	F	COMM	1016	RICHTER
	07.00-10.00 PM	TH	COMM	1016	RICHTER
364	TV PRODUCTION			04.0 CR	
	PREREQ R-T 252				
1	01.00	M WTH	COMM	1015	PICTER
	01.00-02.50	T	COMM	1015	PICTER
2	01.00	M WTH	COMM	1015	PICTER
	01.00-02.50	F	COMM	1015	PICTER
369	TV DIRECTING			04.0 CR	
	PREREQ R-T 364				
1	08.00	T TH	COMM	1003	ROCHELLE
	LAB TBA				
370	TELEVISION FILMS			02.0 CR	
1	12.00-01.50	TH	COMM	1046	MENDENHALL
373	ADV RADIO PROD LAB			01.0 TO 02.0 CR	
	PREREQ R-T 363 CR CONCURRENT ENRIN				
	R-T 363				
1	04.00	T TH	COMM	1046	LYNCH
374	ADV TV PROD LAB			01.0 TO 02.0 CR	
	PREREQ R-T 364				
1	05.00	M	COMM	1046	LAFFERTY
375J	IND RESEARCH PROBS			01.0 TO 02.0 CR	
	PREREQ CONSENT OF INSTR				
1	10.00	W	COMM	1046	RIMMERMAN
377	R-TV ADVERTISING			03.0 CR	
	PREREQ JRNL 370 AND 371				
1	04.00	M W F	COMM	1046	DYBVIQ
383	BROADCAST WRITING			04.0 CR	
	PREREQ R-T 363 AND 364				
1	08.00	M W	COMM	1015	LYNCH
	08.00-09.50	F	COMM	1015	LYNCH
390	BROADCAST STA MGT			05.0 CR	
1	03.00	MTWTHF	COMM	1046	KURTZ
393	RADIO-TV + SOCIETY			03.0 CR	
	PREREQ R-T 251, 351, 352				
1	11.00	M W F	COMM	1046	RIMMERMAN
467	RADIO-TV PROD SURV			03.0 CR	
1	09.00	M WTH	COMM	1015	RIMMERMAN
475	INDIV PRODUCT PROB			01.0 TO 04.0 CR	
1	11.00	T	COMM	1046	ROBBINS

Recreation and Outdoor Education (REC)

201	LEISURE AND REC			03.0 CR	
1	08.00	M W F	UNIT 1	101	O'BRIEN WILLIAM E
202	PROG IN REC			03.0 CR	
	PREREQ REC 201				
1	09.00	M W F	H EC	118	O'BRIEN
301	OUTDOOR EDUCATION			04.0 CR	
1	10.00-11.50	M W	0629	101	
2	02.00-03.50	T TH	UNIT10	101	
302	INSTITUTIONAL REC			03.0 CR	
1	10.00	M W F	UNIT 3	101	GIDEON CHARLES
310	SOCIAL RECREATION			03.0 TO 00.0 CR	
	PREREQ REC 201, 202				
1	10.00-11.50	M W	GYM	204	LUCKENBACH MICHAEL C
315	DRAMATICS IN REC			03.0 CR	
	PREREQ REC 201, 202				
1	10.00-11.50	T TH	GYM	204	TAYLOR LOREN ESTEN
325	LEISURECRAFTS			03.0 CR	
	PREREQ REC 201, 202				
1	02.00-03.50	T TH	0628	101	MURPHY JOHN CLINTON
335	MUS + DANCE IN REC			03.0 CR	
	PREREQ REC 201, 202				
1	02.00-03.50	M W	UNIT11	101	TAYLOR
340	REC ACT FOR SP POP			03.0 CR	
	PREREQ REC 302				
1	01.00	M W F	UNIT 3	101	FREEBURG WM H
380	FIELD WORK			01.0 TO 04.0 CR	
	PREREQ 20HRS RECREATION				
1	TO BE ARRANGED				
390	INTERNSHIP IN REC			16.0 CR	
	PREREQ CONSENT OF DEPARTMENT				
1	TO BE ARRANGED				

470	SCH + COMM REC			04.0 CR	
1	06.30-09.00 PM	W	UNIT 10	101	TAYLOR LOREN ESTEN
500	PRIN OF REC			04.0 CR	
1	06.30-09.00 PM	T	UNIT 11	101	CBRIEN WILLIAM E
510	OUTDOOR ED WKSH			04.0 CR	
1	06.30-09.00 PM	M	UNIT 6	101	
520	REC ADMIN WKSHOP			04.0 CR	
1	06.30-09.00 PM	TH	UNIT 11	101	RIDINGER WILLIAM H
525	SPEC POP WKSHOP			04.0 CR	
1	06.30-09.00 PM	W	UNIT 2	101	
570	SEM-REC + OUT ED			04.0 CR	
1	06.30-09.00 PM	M	UNIT 2	101	
596	INDEPENDENT STUDY		02.0 TO 09.0 CR		
1	TO BE ARRANGED				FREEBURG WM H

Rehabilitation (REHB)

414	DEV EMP OPPORT		01.0 TO 06.0 CR		
	PREREQ SPECIAL STANDING OR CONSENT OF INSTR				
1	TO BE ARRANGED		0406	102	VIECELI LOUIS
	DICKEY				
481	INTRO TO SERVICES		02.0 CR		
1	09.00-10.50	S	WHAM	112	LEE ROBERT EDWARD
486	INTRO BEHAV MOD		04.0 CR		
1	01.00-02.50	M W	AG	150	SULZER EDWARD S
490	READINGS IN REHB		01.0 TO 06.0 CR		
	PREREQ CONSENT OF INSTR				
1	TO BE ARRANGED				
501B	REHB ADMINISTRATION		02.0 CR		
	PREREQ CONSENT OF INSTR				
1	06.00-07.50 PM	M	0406	102	LEE
519	SEL, PLACE + FOLLOW		02.0 CR		
	PREREQ CONSENT OF INSTR				
1	03.00-04.50	M	PHY SC	410	VIECELI
521	CHILD BEHAVIOR		04.0 CR		
	PREREQ GUID 501				
1	03.00-04.50	M W	AG	188	HOPKINS BILLY L
526	COMPLEX BEHAVIOR		04.0 CR		
	PREREQ GUID 501				
1	07.35-09.15 PM	T TH	WHAM	301B	FAKE
532	ASSES PROC IN REHB		04.0 CR		
	PREREQ INTRODUCTORY STATISTICS				
1	09.00-10.50	M W	ABBOTT	129	COYLE
533	BEHAVIOR CHANGE		04.0 CR		
	PREREQ GUID 501				
1	02.00-03.50	F	WHAM	137	SANDERS RICHARD M
541	MED ASPECT-REHB		02.0 CR		
	PREREQ CONSENT OF INSTR				
1	02.00-03.50	T	LS I	205	MIRANTI JOSEPH P
	SECT ONE RESTRICTED TO SPECIAL PERM OF R LEE				
2	09.00-04.30 PM	MTWTHFS	0406	102	GARDNER
555	REHAB COUNS-MEN RET		02.0 CR		
	PREREQ REHB 551 CR CONCURRENT ENR IN REHB 551				
1	01.00-02.50	M	UNIT 13	101	COYLE
556	GROUP PROCEDURES		04.0 CR		
	PREREQ GUID 537 AND CONSENT OF INSTR				
1	05.45-09.00	TH	WHAM	210	GRENFELL
564	SEXUAL BEHAVIOR		04.0 CR		
	PREREQ GUID 501 AND CONSENT OF INSTR				
1	07.35-09.15 PM	T TH	WHAM	205	RUBIN
571	SEM IN SEL TOPICS		02.0 CR		
	PREREQ CONSENT OF DEPT				
1	01.00-02.50	W	WHAM	301B	SCHAMACHER BROCKMAN
576	SEM IN BEHAV MODIFI		02.0 CR		
	PREREQ CONSENT OF INSTR				
1	03.00-04.50	T	WHAM	329	SULZER
578	SEM IN CORR REH CO		02.0 CR		
	PREREQ CONSENT OF INSTR				
1	TO BE ARRANGED				TWOMEY JOHN F
585A	PRACTICUM IN REHAB		01.0 TO 12.0 CR		

1	TO BE ARRANGED				LEE
585B	PRACTICUM IN REHAB	01.0 TO 12.0 CR			
1	TO BE ARRANGED				FOPKINS
585C	PRACTICUM IN REHAB	01.0 TO 24.0 CR			
1	TO BE ARRANGED				SCHUMACHER
589	INTERNSHIP IN REHAB	00.0 TO 12.0 CR			
	PREREQ REHB 585 AND CCNSENT OF DEPT				
1	TO BE ARRANGED				
590	INDEPENDENT PROJ	01.0 TO 16.0 CR			
	PREREQ CONSENT OF INSTR				
1	TO BE ARRANGED				
591	RESEARCH IN REHAB	01.0 TO 16.0 CR			
	PREREQ CONSENT OF INSTR				
1	TO BE ARRANGED				
599	THESIS	01.0 TO 09.0 CR			
	PREREQ CONSENT CF INSTR				
1	TO BE ARRANGED				

Religious Studies (RELS)

301	CONT WEST REL THOT	03.0 CR			
1	03.00	M W F	UNIT 10	101	HAYWARD
320B	BIBLICAL STUDIES	03.0 CR			
	PREREQ JUNIOR STANDING OR CONSENT OF INSTRUCTOR				
1	08.00	M W F	H EC	102	SMITH LEMUEL E
330B	HIST WES REL THOUGH	03.0 CR			
	PREREQ JUNIOR STANDING OR CONSENT OF INSTRUCTOR				
1	02.00	T THF	WHAM	317	SMITH LEMUEL E

Secondary Education (S ED)

310	HIST PRIN OF SEC ED	04.0 CR			
	PREREQ GUID 305				
1	08.00	MTWTH	WHAM	326	
2	08.00	TWTHF	WHAM	208	
3	09.00	MTWTH	WHAM	228	
4	10.00	MTW F	WHAM	326	
5	11.00	MTW F	WHAM	326	
6	12.00	MTWTH	WHAM	326	
7	01.00	MTWTH	WHAM	326	
8	02.00	TWTHF	WHAM	326	
9	03.00	MTWTH	WHAM	326	
10	04.00	MTWTH	WHAM	203	
11	05.45-07.25	M W	WHAM	326	
12	05.45-07.25	M W	WHAM	112	
315	HIGH SCHOOL METHODS	03.0 CR			
	PREREQ S ED 310				
1	09.00	M WTH	WHAM	319	
2	11.00	M WTH	WHAM	328	
352	SEC STUD TCH	08.0 TO 16.0 CR			
1	TO BE ARRANGED				
	AGRICULTURE				
2	TO BE ARRANGED				
	ART				
3	TO BE ARRANGED				
	BIOLOGY				
4	TO BE ARRANGED				
	BUSINESS				
5	TO BE ARRANGED				
	CHEMISTRY				
6	TO BE ARRANGED				
	ECONOMICS				
7	TO BE ARRANGED				
	ENGLISH				
8	TO BE ARRANGED				
	FOREIGN LANGUAGES				
9	TO BE ARRANGED				
	GENERAL SCIENCE				
10	TO BE ARRANGED				
	GEOGRAPHY				
11	TO BE ARRANGED				
	GOVERNMENT				

12	TO BE ARRANGED				
	HEALTH EDUCATION				
13	TO BE ARRANGED				
	HISTORY				
14	TO BE ARRANGED				
	HOME ECONOMICS				
15	TO BE ARRANGED				
	INDUSTRIAL EDUCATION				
16	TO BE ARRANGED				
	JOURNALISM				
17	TO BE ARRANGED				
	MATHEMATICS				
18	TO BE ARRANGED				
	MUSIC				
19	TO BE ARRANGED				
	PHYSICAL EDUCATION				
20	TO BE ARRANGED				
	PHYSICS				
21	TO BE ARRANGED				
	SOCIOLOGY				
22	TO BE ARRANGED				
	SOCIAL STUDIES				
23	TO BE ARRANGED				
	SPEECH				
24	TO BE ARRANGED				
	INSTRUCTIONAL MATERIALS				
25	TO BE ARRANGED				
	LANGUAGE ARTS				
375	READINGS IN S EDUC	02.0 TO 03.0 CR			
	PREREQ CONSENT CF DEPT CHAIRMAN				
1	TO BE ARRANGED				
407A	THE JUNIOR HIGH SCH	04.0 CR			
1	09.00 M WTHF	WHAM	328		
440	TEACH READ IN H S	04.0 CR			
	PREREQ GUID 305				
1	09.00 MTWTH	WHAM	326		DUSENBERY MIRIAM C
2	12.00 MTWTH	WHAM	329		
487	TCH NAT SCI-SEC SCH	04.0 CR			
1	09.00 MTWTH	PULL	304		
488	SOC ST IN SEC SCH	03.0 CR			
	PREREQ GUID 305				
1	11.00 M W F	WHAM	319		
506	READING IN SEC SCH	04.0 CR			
	PREREQ S ED 352 CR TEACHING				
	EXPERIENCE				
1	06.30-09.00 PM M	WHAM	212		
507	READINGS IN READING	02.0 TO 04.0 CR			
	PREREQ CONSENT CF INSTR				
1	TO BE ARRANGED				HILL MARGARET
508	SEM TREND-SEL AREAS	04.0 CR			
	PREREQ COMPLETION OF HALF OR MORE OF				
	MASTERS WRK + CONSENT				
1	06.30-09.00 PM T	WHAM	326		
509	PRACTICUM IN RD	04.0 TO 08.0 CR			
	PREREQ S ED 521C				
1	TO BE ARRANGED				HILL MARGARET
510	SEM PROBS READING	04.0 TO 08.0 CR			
	PREREQ CONSENT CF INSTR				
1	06.30-09.00 PM TH	WHAM	212		
516	INTERN IN READING	08.0 TO 12.0 CR			
	PREREQ S ED 509 AND 514				
1	TO BE ARRANGED				HILL MARGARET
521B	DIAG-CORR READ DIS	04.0 CR			
	PREREQ 505 OR 440 OR CONCURRENT REG				
	WITH 505 + TEACH EXPER				
1	09.00-11.30 S	WHAM	144		
575A	IND RES-CURRICULUM	02.0 TO 04.0 CR			
1	TO BE ARRANGED				
575B	IND RES-SUPERVISION	02.0 TO 04.0 CR			
1	TO BE ARRANGED				
575C	IND RES-LANG ARTS	02.0 TO 04.0 CR			
1	TO BE ARRANGED				

575D	IND RES-SCIENCE	02.0 TO 04.0 CR
1	TO BE ARRANGED	
575E	IND RES-READING	02.0 TO 04.0 CR
1	TO BE ARRANGED	
575F	IND RES-SOC STUDIES	02.0 TO 04.0 CR
1	TO BE ARRANGED	
575G	IND RES-SEC EDUC	02.0 TO 04.0 CR
1	TO BE ARRANGED	
575K	IND RES-JR H METHOD	02.0 TO 04.0 CR
1	TO BE ARRANGED	
596	INDEPENDENT INVEST	05.0 TO 09.0 CR
1	TO BE ARRANGED	
599	THESIS	03.0 TO 09.0 CR
1	TO BE ARRANGED	
600	DISSERTATION	01.0 TO 48.0 CR
1	TO BE ARRANGED	

Secretarial and Business Education (SEC)

201A	TYPEWRITING			03.0 CR	
1	08.00	TWTHF	CL	13	KAPPAS
2	09.00	MTWTH	CL	13	REYNCLDS
3	12.00	MT THF	CL	13	GARRISON
201B	TYPEWRITING			03.0 CR	
	PREREQ SEC 201A CR EQUIV				
1	08.00	TWTHF	CL	13	KAPPAS
2	09.00	MTWTH	CL	13	REYNCLDS
3	12.00	MT THF	CL	13	GARRISON
201C	TYPEWRITING			03.0 CR	
	PREREQ SEC 201B CR EQUIV				
1	11.00	MT THF	CL	13	BURGER CPAL JUNE
221A	SHORTHAND-TRANS			04.0 CR	
1	03.00	MTWTHF	CL	17	BURGER
221B	SHORTHAND-TRANS			04.0 CR	
	PREREQ SEC 221A CR EQUIV				
1	03.00	MTWTHF	CL	17	
221C	SHORTHAND-TRANS			04.0 CR	
	PREREQ SEC 221B CR EQUIV				
1	03.00	MTWTHF	CL	13	GARRISON
241	DUPLICATING			01.0 CR	
	PREREQ SEC 201 OR EQUIV				
1	08.00-09.50	F	CL	10	SCHRCEDER
2	10.00-11.50	W	CL	10	SCHRCEDER
3	03.00	M	CL	10	SCHRCEDER
	04.00	M	CL	13	
242	CALC MACH ACCTANTS			01.0 CR	
1	10.00	T TH	CL	17	BAUERNFEIND
304	ADV TYPEWRITING			03.0 CR	
	PREREQ SEC 201C CR EQUIV				
1	10.00	MTWTH	CL	13	RAHE
324A	ADV SHORTHAND-TRANS			04.0 CR	
	PREREQ SEC 221C CR EQUIV				
1	01.00	MTWTHF	CL	17	BUBOLTZ
324B	ADV SHORTHAND-TRANS			04.0 CR	
	PREREQ SEC 324A CR EQUIV				
1	01.00	MTWTHF	CL	13	BURGER
326	EXECUTIVE SEC PROC			04.0 CR	
	PREREQ SEC 304				
1	02.00	MTWTHF	CL	13	BAUERNFEIND
341	OFFICE CALC MCHNS			04.0 CR	
1	09.00	MTWTHF	CL	17	BAUERNFEIND HARRY B
403	TEACH TYPEWRITING			03.0 CR	
	PREREQ SEC 304 CR EQUIV				
1	04.00	TWTH	CL	13	RAHE
404	TEACHING SHORTHAND			03.0 CR	
	PREREQ SEC 324A CR EQUIV				
1	06.00-07.25 PM	M W	CL	13	JACOBSON
406	TCH OF PR-MACH /P/			04.0 CR	
	PREREQ SEC 341 OR EQUIV				
1	05.45-07.25	T TH	CL	17	BAUERNFEIND HARRY B
417	DATA PROC IN BUS ED			04.0 CR	
1	05.45-08.00	M W	H4	133	ROBB JAMES

485	PRIN-PHIL VO TEC ED	03.0 CR	
	PREREQ STUDENT TEACHING OR CONSENT OF DEPARTMENT		
1	06.00-08.30 PM M	TECH D 130	BAUERNFEIND
509	IMP INSTR GEN BUS	04.0 CR	
1	09.00-11.30 S CL	17	BUBOLTZ
590	READINGS IN BUS ED	02.0 TO 05.0 CR	
	PREREQ CONSENT CF INSTR		
1	TO BE ARRANGED		RAHE HARVES
591	IND RES IN BUS ED	02.0 TO 05.0 CR	
	PREREQ CONSENT CF INSTR		
1	TO BE ARRANGED		RAHE HARVES

Sociology (SOC)

301	PRINCIPLES OF SOC	04.0 CR	
	PREREQ JR STANDING		
1	TO BE ARRANGED		
	SECT 1 RESERVED FOR SOC MAJORS		
2	TO BE ARRANGED		
3	11.00-12.40 T F WHAM	112	ROSSEL
	SEC 3 RESERVED FOR SCCMAJCRS		
302	CONTEMP SOC PROB	04.0 CR	
	PREREQ SOC 301		
1	02.00 M W F H EC	102	SMITH
	02.00 TH PARK	124	
306	SOCIAL CONTROL	04.0 CR	
	PREREQ GSB 201B CR SOC 301		
T 1	TO BE ARRANGED		
312	ELEM SOC RESEARCH	04.0 CR	
	PREREQ GSD 108C CR MATH 220		
1	10.00 MTWTH WHAM	112	GASTCN
2	01.00 MTWTH PHY SC	118	
	RESERVE SECS 1 + 2 FOR MAJORS		
351	SOC OF RELIGION	04.0 CR	
	PREREQ GSB 201B CR SOC 301		
1	02.00 MT THF LAWSON	131	MCLEAN
372	CRIMINOLOGY	04.0 CR	
	PREREQ GSB 201B CR SOC 301		
1	11.00 MTWTH WHAM	308	VANDIVER RICHARD D
375	SOCIAL WELFARE	04.0 CR	
	PREREQ GSB 201B CR SCC 301		
1	09.00 TWTHF UNIT 3	101	EADES JOSEPH
396	READINGS IN SOC	01.0 TO 05.0 CR	
	PREREQ CONSENT CF INSTR		
1	TO BE ARRANGED		
396H	HONORS READINGS-SOC	01.0 TO 04.0 CR	
	PREREQ CONSENT CF DEPARTMENT		
1	TO BE ARRANGED		
397H	HONORS SEM IN SOC	03.0 TO 06.0 CR	
	PREREQ CONSENT CF DEPARTMENT		
1	TO BE ARRANGED		
435	SOC STRATIFICATION	04.0 CR	
	PREREQ GSB 201B CR SOC 301		
1	07.00-10.00 PM M WHAM	201	NALL
	RESERVE FOR SOC MAJCRS		
438	SOC-OCCUPAT + PROF	04.0 CR	
	PREREQ GSB 201B CR SOC 301		
1	TO BE ARRANGED		RAINEY
	RESERVE FOR SOC MAJCRS		
451	SOC THGT II MVMT	04.0 CR	
	PREREQ CONSENT CF INSTR		
1	TO BE ARRANGED		
	RESERVE FOR SOC MAJCRS		
454	SOCIOLOGY OF SCIENC	04.0 CR	
	PREREQ SOCIOLOGY 301 CR CONSENT OF INSTRUCTOR		
1	08.00-09.40 M TH AG	152	GASTCN
473	JUVENILE DELIN	04.0 CR	
	PREREQ SOC 302 CR CONSENT OF INSTR		
1	12.00 MTWTH WHAM	205	ALIX
481	PROC IN SOC WORK	04.0 CR	
	PREREQ SOC 375 OR CONSENT OF INSTR		

1	01.00	M	WHAM	201	BRELJE MARTHA ELAINE
	01.00	T THF	WHAM	228	BRELJE MARTHA ELAINE
482	SOC WK-SEL AGENCIES		03.0 CR		
	PREREQ	SOC 481 AND	CONSENT OF INSTR		
1	02.00	M F	WHAM	212	BRELJE MARTHA ELAINE
	02.00	T	WHAM	305	BRELJE MARTHA ELAINE
486	INDEP STUDY COM DEV	01.0 TO 05.0 CR			
	PREREQ	CONSENT OF INSTR			
1	TO BE ARRANGED				THOMAS
487	COMMUNITY DEVEL		04.0 CR		
	PREREQ	4 HRS SOC CR	CONSENT OF INSTR		
1	04.00-06.50	T	0686	29	BHATTACHARYYA
489E	INDEPT STUDY CORR	02.0 TO 04.0 CR			
	PREREQ	CONSENT OF INSTR			
1	TO BE ARRANGED				JOHNSON + EYNON
502	EUR THEO 1800-1910		04.0 CR		
	PREREQ	15 HRS SOC OR	CONSENT OF INSTR		
1	02.00-04.30	M	WHAM	137	MUNCH PETER ANDREAS
504	SEM-AMERICAN SOC		04.0 CR		
	PREREQ	SOC 501 CR	CONSENT OF INSTR		
1	02.00-04.30	W	WHAM	137	DUNCAN HUGH DALZIEL
537	SOCIOLOGY OF LAW		04.0 CR		
	PREREQ	15 HRS OF SOC CR	CONSENT OF INSTR		
1	07.00-09.30 PM	TH CL	326	EYNON	
538	SEM INDUSTRIAL SOC		04.0 CR		
	PREREQ	15 HRS OF SOC CR	CONSENT OF INSTR		
1	08.00-09.40	T F AG	170	RCSSEL	
545	FAM AND SOC CHANGE		04.0 CR		
	PREREQ	15 HRS SOC, INCLUDING SOC 340,	OR CONSENT OF INSTR		
1	08.30-11.00	W	COMM	1006	LANTZ
563	RES PROB IN DISORG		04.0 CR		
	PREREQ	15 HRS SOC OR	CONSENT OF INSTR		
1	07.00-09.30 PM	T CL	326	SNYDER	
564	SOC FAC-MENT DISCRD		04.0 CR		
	PREREQ	15 HRS SOC OR	CONSENT OF INSTR		
1	02.00-04.30	T	WHAM	212	LANTZ
572	SEM IN CRIMINOLOGY		04.0 CR		
	PREREQ	SOC 372 CR	CONSENT OF INSTR		
1	TO BE ARRANGED				JOHNSON
583	SUPER FIELD WK CORR	04.0 TO 12.0 CR			
	PREREQ	CONSENT OF INSTR			
1	TO BE ARRANGED				JOHNSON + EYNON
587	RESEARCH IN CD	02.0 TO 08.0 CR			
	PREREQ	MAJOR IN COMMUNITY DEVEL			
1	TO BE ARRANGED				THOMAS
588A	SEM-COMM DEVELOPMNT		04.0 CR		
	PREREQ	SOC 487 CR	CONSENT OF INSTR		
1	04.00-07.00	W	0686	29	THOMAS
588B	SEM-COMM DEVELOPMNT		04.0 CR		
	PREREQ	SOC 588A			
1	04.00-07.00	TH	WHAM	137	
591	INDIVIDUAL RESEARCH	02.0 TO 06.0 CR			
	PREREQ	CONSENT OF INSTR AND DEPT CHAI	RMAN		
1	TO BE ARRANGED				
596	READINGS IN SOC	02.0 TO 12.0 CR			
	PREREQ	CONSENT OF INSTR AND DEPT CHAI	RMAN		
1	TO BE ARRANGED				
599	THESIS	02.0 TO 09.0 CR			
	PREREQ	CONSENT OF DEPT CHAIRMAN			
1	TO BE ARRANGED				
600	DISSERTATION	01.0 TO 48.0 CR			
	PREREQ	CONSENT OF DEPT CHAIRMAN			
1	TO BE ARRANGED				

Special Education (SPE)

200	ORIENT ED EXC CHILD		02.0 CR		
1	09.00	M W	0861	102	
2	02.00	M W	WHAM	302	

3	02.00	T TH	WHAM	208	
406	TECH INT HEAR TESTS		04.0 CR		
	PREREQ SP+A 416 CR	CONSENT OF INSTR			
1	09.00	MT THF	COMM	1006	
	CROSSLISTED WITH SP+A 406				
410A	PROB + CHAR-EMO CHI		04.0 CR		
	PREREQ SP E 414				
1	02.00	M WTH	LAWSON	231	
	02.00	T	PULL	38	
410B	PROB CHAR MENT RET		04.0 CR		
	PREREQ SP E 414				
1	03.00	MTWTH	WHAM	302	
410C	PROB CHAR GIFT CHLD		04.0 CR		
	PREREQ PSYC 301 CR 303 OR	CONSENT OF INSTR			
1	10.00	M	AG	152	MCKAY B ELIZABETH
	10.00	T THF	WHAM	205	MCKAY B ELIZABETH
411	ASS + REMED LRN DIS		04.0 CR		
	PREREQ SP E 414 AND	CCONSENT OF INSTR			
1	06.30-09.00 PM	M	WHAM	228	JCINER LEE
413A	DIR OBSER-EMOT DIST		04.0 CR		
	PREREQ	CONSENT OF INSTR			
1	TO BE ARRANGED				
413B	DIR OB OF MR CHILD		04.0 CR		
	PREREQ	CONSENT OF INSTR			
1	10.00-12.50	T	WHAM	137	RAINEY DAN S
414	THE EXCEPT CHILD		04.0 CR		
	PREREQ PSYC 301 CR 303 OR	CONSENT OF INSTR			
1	08.00	M	WHAM	112	HAIDER S SAJJAD
	08.00	T TH	LS I	323	
	08.00	W	WHAM	201	
	UNDERGRADS ONLY				
2	01.00	MTWTH	WHAM	302	
	UNDERGRADUATES ONLY				
3	06.30-09.00 PM	W	WHAM	308	MCKAY B ELIZABETH
	GRADUATES ONLY				
415	ED AC HAND CHILD		04.0 CR		
	PREREQ	CONSENT OF INSTR			
1	02.00	TWTHF	WHAM	301A	STULL MARJORIE
420A	MET + MAT-ED EM DIS		04.0 CR		
	PREREQ SP E 410A AND	CCONSENT OF INSTR			
1	04.00	MTWTH	WHAM	328	
420B	METH + MAT TEACH MR		04.0 CR		
	PREREQ SP E 410B AND	CCONSENT OF INSTR			
1	02.00-03.50	T TH	WHAM	137	
2	06.00-09.00 PM	W	WHAM	137	RAINEY
496	READ + INDEP STUDY		02.0 TO 08.0 CR		
	PREREQ SP E 414 AND	CCONSENT OF STAFF			
1	TO BE ARRANGED				
501	SPEC RES PROB		04.0 CR		
	PREREQ	CONSENT OF STAFF			
1	TO BE ARRANGED				
577	PRACTICUM IN SP ED		04.0 TO 12.0 CR		
	PREREQ SP E 410A, B, C, OR D, AND	CONSENT OF STAFF			
1	TO BE ARRANGED				
580A	ED MALAD CHILDREN		04.0 CR		
	PREREQ SP E 414 AND	CCONSENT OF INSTR			
1	03.00	MTWTH	WHAM	328	CROWNER JAMES
580B	ED OF MENT RET		04.0 CR		
	PREREQ SP E 414 AND	CCONSENT OF INSTR			
1	06.30-09.00 PM	T	WHAM	301A	JOINER LEE M
591	SEM ED-PHYS HDOP CH		04.0 CR		
	PREREQ SP E 414 AND	CCONSENT OF INSTR			
1	TO BE ARRANGED				
596	IND INVESTIGATION		05.0 TO 09.0 CR		MORGAN H
1	TO BE ARRANGED				
599	THESIS		02.0 TO 09.0 CR		
1	TO BE ARRANGED				
600	DISSERTATION		01.0 TO 48.0 CR		
1	TO BE ARRANGED				
					CROWNER JAMES

Speech (SPCH)

102	PUBLIC SPEAKING			04.0 CR	
	PREREQ	GSD 103			
1	02.00	MTWTH	COMM 1020	FIBBS	
2	03.00	MTWTH	COMM 1020	WILEY RAYMOND D	
104	TRAINING SPKG VOICE		04.0 CR		
	PREREQ	GSD 103			
1	10.00	MT THF	COMM 1006	FARGHER GEORGANN P	
	CROSSLISTED WITH SP+A 104				
200	PHONETICS		04.0 CR		
1	02.00	MTWTH	COMM 1017	GARBUTT CAMERON W	
201	PARLIAMENTARY LAW		02.0 CR		
1	11.00	M F	COMM 1020	BRENIMAN LESTER R	
202	PRIN OF DISCUSSION		03.0 CR		
1	03.00	MT TH	COMM 1018	POTTER	
2	03.00	TW F	COMM 1021		
209	FORENSIC ACTIVITIES	01.0 TO 03.0 CR			
	PREREQ	CONSENT OF INSTR			
1	TO BE ARRANGED			KLEINAU MARVIN DALE	
301	PERSUASION		04.0 CR		
1	02.00	MTWTH	COMM 1018	JENNINGS	
304	GREAT SPEECHES		03.0 CR		
1	01.00	M W F	COMM 1018	KLEINAU MARVIN DALE	
309	FORENSIC ACTIVITIES	01.0 TO 04.0 CR			
	PREREQ	CONSENT OF INSTR			
1	TO BE ARRANGED			KLEINAU MARVIN DALE	
323	ORAL INTERP II		04.0 CR		
	PREREQ	GSC 200 CR CONSENT OF INSTR			
1	11.00	MTWTHF	COMM 1018	KLEINAU	
2	12.00	MTWTHF	COMM 2012		
401	CREATIVE DRAMATICS		04.0 CR		
1	09.00	MTWTH	COMM 1020	BRADLEY	
407B	AMER PUBLIC ADDRESS		04.0 CR		
1	10.00-11.50	T TH	COMM 2012	BRADLEY EARL EDESL	
418	BRITISH PUB ADDRESS		04.0 CR		
1	06.00-09.00 PM	M	COMM 1021	MICKEN RALPH A	
427	SEC SCHL FOREN PROG		04.0 CR		
1	10.00	M WTHF	COMM 1018	BRENIMAN LESTER R	
429	EXP STUD ORAL COM		04.0 CR		
	PREREQ	SPCH 428			
1	01.00-02.50	M W	COMM 1022	SANDERS	
434	LEC + LEC RECITAL		04.0 CR		
	PREREQ	12 HRS PUBLIC SPEAKING, INTERP OR THEATRE			
1	10.00-11.50	T TH	COMM 1017	ANDERSON	
441	TCHG ELEM SCHL SPCH		04.0 CR		
1	08.00-09.50	T TH	COMM 1018	SIMMS	
450B	LAB INTERPER COM		04.0 CR		
1	02.00-03.50	T TH	COMM 2012	PACE THOMAS J	
504	MED + REN RHETORIC		04.0 CR		
1	10.00-11.50	M W	COMM 2012	BRADLEY EARL EDESL	
507B	STUDIES IN PUB ADD		03.0 CR		
	PREREQ	SPCH 507A			
1	09.00-11.50	F	COMM 2012	BRADLEY EARL EDESL	
508	SEM STUDIES IN DISC		04.0 CR		
1	10.00	MT THF	COMM 1020	POTTER	
510	SEM PERS SOC CONT		04.0 CR		
1	08.00-09.50	T TH	COMM 2012	MICKEN	
511B	TEACH COLL SPEECH		02.0 CR		
1	01.00	M W	COMM 2012		
530	RESEARCH PROBLEMS	01.0 TO 04.0 CR			
1	TO BE ARRANGED			BRADLEY EARL EDESL	
532B	RESEARCH IN SPEECH		02.0 CR		
1	01.00	T TH	COMM 2012	BRADLEY EARL EDESL	
599	THESIS	02.0 TO 09.0 CR			
1	TO BE ARRANGED			MICKEN RALPH A	
600	DISSERTATION	01.0 TO 48.0 CR			
1	TO BE ARRANGED			MICKEN RALPH A	

Speech Pathology and Audiology (SP & A)

100	SPEECH CLINIC	00.0 TO 02.0 CR	
1	TO BE ARRANGED		FARGHER GEORGANN P

104	TRAINING SPK VOICE			04.0 CR	
1	10.00	MT THF	COMM	1006	FARGHER GEORGANN P
318	VOICE + CLEFT PAL			04.0 CR	
	PREREQ SP+A 212	CR	CONSENT OF INSTR		
1	08.00	MT THF	COMM	1006	BRACKETT I P
400	IND STUDY-SP+A			01.0 TO 04.0 CR	
	PREREQ ADVANCED STANDING				
1	TO BE ARRANGED				FCSHIKO
405B	PRAC SP + HEAR THER			02.0 TO 04.0 CR	
	PREREQ JUNIOR STANDING IN DEPARTMENT				
1	11.00	T TH	COMM	1006	PACE SUE ANN
406	HEARING TESTS			04.0 CR	
	PREREQ SP+A 416	CR	CONSENT OF INSTR		
1	09.00	MT THF	COMM	1006	COPELAND ALFRED
412	CEREBRAL PALSY			04.0 CR	
	PREREQ SP+A 212, 214	CR	CONSENT OF IN STR		
1	01.00	MT THF	COMM	1006	PACE SUE ANN
414	PHYSIOL OF SPEECH			04.0 CR	
1	10.00-11.50	F	LS I	118	KAPLAN H M
	10.00	MT TH	LS I	113	KAPLAN H M
	CROSSLISTED WITH PHYSIOLOGY 414				
419	COMM PROB OF H OF H			04.0 CR	
	PREREQ SP+A 406	CR	CONSENT OF INSTR		
1	02.00	MT THF	COMM	1006	MC FARLAND
428	SP CORR FOR CL TCH			04.0 CR	
	PREREQ PRACTISING TEACHER, SR OR GRAD IN EDUC				
1	03.00	MT THF	COMM	1006	CRITTENDEN
515	READINGS IN SP+A			01.0 TO 04.0 CR	
	PREREQ ADVANCED STANDING				
1	TO BE ARRANGED				BRACKETT
516	SEM-PSYCHOACOUSTICS			04.0 CR	
	PREREQ SP+A 406, 416 AND 420				
1	04.00-05.50	T F	COMM	1009	COPELAND ALFRED
522B	SEM-ORG SPCH PROB			01.0 TO 04.0 CR	
	PREREQ SP+A 522A	CR	CONSENT OF INSTR		
1	TO BE ARRANGED				KOEPP-BAKER
524	SEM-LANG DISORDERS			04.0 CR	
	PREREQ GRADUATE STANDING				
1	02.00-03.50	M TH	COMM	1009	
529B	SEM IN ST BEHAVIOR			01.0 TO 04.0 CR	
	PREREQ SP+A 529A	CR	CONSENT OF INSTR		
1	02.00-03.50	T F	COMM	1009	BRUTTEN GENE JEROME
530	RES PROB IN SP+A			01.0 TO 04.0 CR	
	PREREQ ADVANCED STANDING				
1	TO BE ARRANGED				BRUTTEN GENE JEROME
533	SEM IN SPCH SCIENCE			01.0 TO 04.0 CR	
1	10.00-11.50	T F	COMM	1009	HOSHIKO MICHAEL S
599	THESIS			02.0 TO 09.0 CR	
1	TO BE ARRANGED				KOEPP-BAKER
600	DISSERTATION			01.0 TO 48.0 CR	
1	TO BE ARRANGED				KOEPP-BAKER

Technical & Industrial Education (TIED)

100	ORIENTATION			02.0 CR	
1	04.00	T TH	TECH A	111	
201B	VISUAL COMMUNICATNS			03.0 CR	
1	10.00	M F	PULL I	17	KENNEKE LARRY
	09.00-10.50	W	PULL I	17	KENNEKE LARRY
302	CONSTR MTDS PRI TCH			04.0 CR	
1	08.00-09.50	MTWTH	PULL I	109	
2	03.00-04.50	MTWTH	PULL I	109	
3	06.00-08.50 PM	T TH	PULL I	109	
4	06.00-08.30 PM	M W	PULL I	109	
303	DIVERSIFIED CRAFTS			04.0 CR	
1	10.00-11.50	MTWTH	PULL I	109	JENKINS JAMES JR
2	01.00-02.50	MTWTH	PULL I	109	JENKINS JAMES JR
307	ENER CONV-P TRAN II			03.0 CR	
	PREREQ 207				
1	11.00	MT	PULL I	16	SULLIVAN JAMES A
	10.00-11.50	TH	PULL I	16	SULLIVAN JAMES A

310A	ELECTRONICS-INSTRUM			04.0 CR	
1	08.00	M W	TECH D	106	
	08.00-09.50		F	TECH D	106
319	INDUSTRIAL INTERN		03.0 TO 24.0 CR		
	PREREQ	CONSENT OF COORDINATOR			
1	TO BE ARRANGED				FUTKIN RONALD M
408	T AIDS IN TECH ED		03.0 CR		
1	06.00-08.30 PM	M	TECH D	130	KENNEKE LARRY
2	06.00-08.30 PM	T	TECH D	130	NYSTROM DENNIS
419	STU TCH IN TECH PRO		08.0 TO 16.0 CR		
	PREREQ	9 QTR HRS PROFESSIONAL I ED			
	GRAD STUDENTS ONLY				
1	TO BE ARRANGED				
425	PRACTICUM IN TECH		02.0 TO 08.0 CR		
	PREREQ	12 HRS IN TECHNICAL SUBJECTS			
1	TO BE ARRANGED				STADT RONALD W
430	SPECIAL PROBLEMS		02.0 TO 08.0 CR		
	PREREQ	CONSENT OF INSTRUCTOR			
1	TO BE ARRANGED				STADT RONALD W
435	MANUAL ARTS INTERN		06.0 TO 18.0 CR		
	PREREQ	CONSENT OF COORDINATOR			
1	TO BE ARRANGED				STADT RONALD W
465A	INDUSTRIAL SAFETY		04.0 CR		
1	11.00	MT THF	TECH A	208	JOHNSON M
480	CURR DEV-IND ART ED		03.0 CR		
	PREREQ	20 HRS IN TIED			
1	03.00	M W F	TECH D	131	ERICKSON
485	PRIN-PHIL VO TEC ED		03.0 CR		
	PREREQ	STUDENT TEACHING OR CONSENT OF DEPARTMENT			
1	06.00-08.30 PM	M	TECH D	130	RAMP WAYNE S
491B	PRIN IND TEACHING		03.0 CR		
	PREREQ	491A			
1	06.00-08.30 PM	T	TECH A	208	RICE CHARLES M
495	OCC ANALYSIS		03.0 CR		
	PREREQ	12 HRS IN TECHNICAL SUBJECTS			
1	06.00-09.00 PM	TH	TECH A	310	
496	SEL + ORG SUB MAT		03.0 CR		
	PREREQ	12 HRS IN TIED			
1	06.00-08.30 PM	W	TECH A	208	SULLIVAN JAMES A
540	RESEARCH TECH EDUC		02.0 TO 06.0 CR		
1	09.00-12.00	S	TECH A	208	ERICKSON J
541	OCCUP INFO AND GUID		04.0 CR		
1	06.00-09.00 PM	TH	WHAM	201	RAMP WAYNE S
570	SPECIAL INVESTIGAT		02.0 TO 06.0 CR		
1	TO BE ARRANGED				STADT RONALD W
580	SEMINAR		01.0 TO 09.0 CR		
1	06.00-09.00 PM	T	TECH A	122	STADT R
599	THESIS		01.0 TO 09.0 CR		
1	TO BE ARRANGED				STADT RONALD W

Theater (THEA)

111A	STAGING TECHNIQUES			03.0 CR	
1	09.00	M W F	LAWSON	231	HENDREN PHILIP R
	03.00-04.50	M	COMM	1037	
2	09.00	M W F	LAWSON	231	HENDREN
	03.00-04.50	W	COMM	1037	
3	09.00	M W F	LAWSON	231	HENDREN
	03.00-04.50	F	COMM	1037	
111B	STAGING TECHNIQUES			03.0 CR	
1	02.00	M W F	COMM	1057	ZOECKLER CHARLES
	03.00-04.50	T	COMM	1037	
2	02.00	M W F	COMM	1057	ZOECKLER CHARLES
	03.00-04.50	TH	COMM	1037	
203	VOICE AND DICTION			04.0 CR	
1	09.00	M TH	COMM	13F	GARBUTT CAMERON W
	09.00	T	ABBOTT	129	GARBUTT CAMERON W
	09.00	W	COMM	2012	
208	DRAMATIC ACTIVITIES		01.0 TO 03.0 CR		
1	07.35-09.00 PM	T TH	COMM	1045	ZOECKLER
213	STAGE MOVEMENT		03.0 CR		
1	12.00	MTWTHF	COMM	1045	DAVIDSON ELLEVA J

217	ACTING			04.0 CR	
1	01.00-02.50	T TH	COMM	1045	
230	TECHNIQUES BALLET		02.0 TO 48.0 CR		
1	04.00-05.30	M W	0813	101	DAVIDSON ELLEVA J
	04.00	F	0813	101	DAVIDSON ELLEVA J
240	THEO-TECH CONT DNCE		02.0 TO 24.0 CR		
1	02.00-03.40	MTWTH	0811	101	GRAY
	CROSS-LISTED WITH PEW 24C				
273	DANCE WORKSHOP		01.0 TO 06.0 CR		
1	07.30-09.30 PM	T TH	0811	101	GRAY WINSTON G
305	STAGE MAKEUP		04.0 CR		
1	10.00-11.50	W S	COMM	1055	
308	DRAMATIC ACTIVITIES		01.0 TO 03.0 CR		
1	07.35-09.00 PM	T TH	COMM	1037	ZOECKLER CHARLES W
313	DANCE PRODUCTION		04.0 CR		
1	04.00-05.50	T TH	0811	101	GRAY WINSTON G
317	INTERMEDIATE ACTING		04.0 CR		
	PREREQ THEA 217				
1	01.00-02.50	M W	COMM	1045	FARRISON EELIN S
322	THEATER PRACTICUM		02.0 TO 12.0 CR		
1	TO BE ARRANGED				
					GRAY WINSTON G
402A	PLAY DIRECTING		04.0 CR		
1	08.00	MTW F	COMM	1045	
402B	PLAY DIRECTING		04.0 CR		
1	11.00	MT THF	COMM	1045	ABRAMS SHERWIN
409	H S THEATRE		04.0 CR		
1	01.00	T TH	AG	198	ZOECKLER CHARLES
	01.00	M W	ABBOTT	129	
411	PLAYWRITING		04.0 CR		
	PREREQ THEA 311 + CONSENT OF INSTR				
1	03.00	M W	AG	144	KOZLENKO WILLIAM
	03.00	T F	ABBOTT	129	
412	STAGE DESIGN		04.0 CR		
	PREREQ THEA 207				
1	09.00	MTW F	COMM	2041	PAYNE DARWIN
414	COSTUME DESIGN		04.0 CR		
1	02.00	M	COMM	2041	HARRISON EELIN S
	01.00	T THF	COMM	2041	
432	STAGE LIGHTING		04.0 CR		
1	12.00	MTWTH	COMM	1037	HENDREN PHILIP R
503A	SCENE DESIGN		04.0 CR		
	PREREQ CONSENT CF DEPT + GRAD				
	STANDING				
1	10.00	MTWTH	COMM	2042	DARWIN PAYNE
505	THE TRAGIC THEATRE		04.0 CR		
1	02.00	T THF	TECH B	20	ABRAMS SHERWIN
	02.00	W	AG	220	
526	SEM IN THEATRE ARTS		03.0 TO 12.0 CR		
	PREREQ GRAD STANDING + CONSENT				
	OF DEPARTMENT				
1	09.00-11.50	S	LAWSON	101	KOZLENKO WILLIAM
530	RESEARCH PROBLEMS		01.0 TO 04.0 CR		
1	06.00-07.30 PM	W	COMM	1017	
599	THESIS		01.0 TO 09.0 CR		
1	TO BE ARRANGED				

Zoology (ZOOL)

103	GEN VERT ZOOLOGY			05.0 CR	
	PREREQ GSA 201 A + B				
1	08.00	M W	WHAM	308	GEORGE WILLIAM
	08.00-09.50	T TH S	LS I	208	
2	08.00	M W	WHAM	308	GEORGE WILLIAM
	01.00-03.50	T TH	LS I	208	
3	08.00	M W	WHAM	308	GEORGE WILLIAM
	10.00-11.50	T TH S	LS I	208	
4	08.00	M W	WHAM	308	GEORGE WILLIAM
	05.45-09.15	T	LS I	208	
	05.45-07.25	TH	LS I	208	
202	COMPAR ANATOMY VERT			05.0 CR	
	PREREQ ZOOL 103				
1	08.00	T TH	WHAM	308	
	08.00-09.50	M W F	LS I	208	

2	08.00	T TH	WHAM	308	
	10.00-11.50	M W F	LS I	208	
3	08.00	T TH	WHAM	308	
	01.00-02.50	M W F	LS I	208	
4	08.00	T TH	WHAM	308	
	03.00-04.50	M W F	LS I	208	
316	INSECT PESTS CONTR			04.0 CR	
	PREREQ GSA 201B				
1	01.00	M W	LS I	205	MCPHERSON J
	01.00-02.50	T TH	LS I	213	
2	01.00	M W	LS I	205	MCPHERSON J
	03.00-04.50	T TH	LS I	213	
321	HISTOLOGICAL TECHN			05.0 CR	
	PREREQ 1 YR OF BIC SCIENCE OR CONSENT OF INSTRUCTOR				
1	10.00	T TH	LS I	205	MARTAN JAN
	10.00-11.50	M W F	LS I	209	MARTAN JAN
322	PROBLEMS IN ZOOLOGY			02.0 TO 05.0 CR	
	PREREQ 4.25 GPA, SENIOR STANDING, AND DEPT OR FAC APPROVAL				
1	TO BE ARRANGED				
382	ZOO SENIOR SEMINAR			00.5 TO 01.5 CR	
	PREREQ SENIOR STANDING				
1	12.00	F	LS I	205	
2	04.00	T	LS I	205	
3	04.00	T	LS I	323	
404	ZOOLOGY FIELD STUD			02.0 TO 08.0 CR	
	PREREQ CONSENT OF DEPT				
1	TO BE ARRANGED				
406	PROTOZOOLOGY			04.0 CR	
	PREREQ 1 YR OF ZCCL INCLUDING 102 OR CONSENT OF INSTRUCTOR				
1	02.00	M W	LS I	205	GARDIAN GEORGE
	03.00-04.50	M W	LS I	211	
410	VERT PALEONTOLOGY			05.0 CR	
	PREREQ ZOO 202 CR GEOLGY 301				
1	11.00	MTWTH	LS I	205	GALBREATH EDWIN
	01.00	M W	LS I	204	GALBREATH E
2	11.00	MTWTH	LS I	205	GALBREATH EDWIN
	02.00	M W	LS I	204	GALBREATH E
413	THE INVERTEBRATES			05.0 CR	
	PREREQ 1 YR OF ZCCL INCLUDING 102				
1	12.00	T TH	LS I	205	BEATTY JOSEPH
	12.00-01.50	M W F	LS I	130	BEATTY JOSEPH
441	DEVELOPMENTAL BIOL			04.0 CR	
	PREREQ ZOO 300 + 1 CCURSE IN CELLULAR PHSL CR CONS.				
1	08.00	M F	LS I	205	FAAS
	08.00-09.50	T TH	LS I	213	FAAS
459	GAME BIRDS			04.0 CR	
	PREREQ 1 YR OF ZCCL INCLUDING 103				
1	04.00	M W	LS I	205	KRULL JOHN N
	08.00-11.50	S	LS I	204	KRULL JOHN N
465	ICHTHYOLOGY			04.0 CR	
	PREREQ 1 YR OF ZCCL INCLUDING 103				
1	09.00	M W	LS I	205	LEWIS WILLIAM M
	09.00-10.50	T TH	LS I	204	
513	ADV ORNITHOLOGY			03.0 CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	01.00-02.50	T TH	LS I	204	FISHER
520	ADV INVERTEBRATES			05.0 CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	10.00	T TH	LS I	130	BLACKWELDER R E
	09.00-10.50	M W F	LS I	130	BLACKWELDER R E
561	GAME MAMMALS			04.0 CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	10.00	M W	LS I	205	STAINS HOWARD
	08.00-11.50	F	LS I	204	STAINS HOWARD
577	POPULATION ECOLOGY			03.0 CR	
	PREREQ CONSENT OF INSTRUCTOR				
1	08.00	TWTH	LS I	205	KLIMSTRA

579	ANIMAL BEHAVIOR	04.0 CR			
	PREREQ CONSENT OF INSTRUCTOR				
1	03.00	WTH	LS I	205	WARING GEORGE H
	01.00-04.50	F	AG	132	WARING GEORGE H
	CROSSLISTED WITH AN I 579				
580	ADV SYSTEMATICS	04.0 CR			
	PREREQ CONSENT OF INSTRUCTOR				
1	01.00-02.50	T TH	LS I	130	BLACKWELDER R E
	CROSSLISTED WITH BCT 581				
582B	GRADUATE SEMINAR	00.5 CR			
1	04.00	TH	LAWSON	171	
583B	TEACH ZOOL COLL	01.0 CR			
	PREREQ GRAD STATUS IN A BIO SCIENCE				
1	05.00	W	LS I	205	FISHER
596	SPECIAL RESEARCH	03.0 TO 12.0 CR			
	PREREQ CONSENT OF INSTRUCTOR				
1	TO BE ARRANGED				
599	THESIS	02.0 TO 09.0 CR			
1	TO BE ARRANGED				
600	DISSERTATION	03.0 TO 48.0 CR			
1	TO BE ARRANGED				

SCHEDULE OF VOCATIONAL-TECHNICAL INSTITUTE COURSES

COURSE & SECTION NO.	TITLE & HOURS	DAYS	BLDG. & RM.	INSTRUCTOR
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General Studies Area A—Man's Physical Environment and Biological Inheritance (GSA)

101A	INTRO-PHYS SCIENCE	04.0 CR			
901	08.00	MTWTH	M3	103	COLLINS JASON J
902	10.00	MTWTH	M3	101	COLLINS JASON J
903	01.00	MTWTH	M3	103	
904	04.00	MTWTH	M3	101	COLLINS JASON J
101B	INTRO-PHYS SCIENCE	04.0 CR			
901	11.00	MTWTH	M3	103	
902	04.00	MTWTH	M3	103	

General Studies Area B—Man's Social Inheritance and Social Responsibilities (GSB)

201B	CULT-SOCIETY BEHAV	04.0 CR			
901	09.00	MTWTH	L3	109	
902	12.00	MTWTH	L3	109	
201C	CULT-SOCIETY-BEHAV	04.0 CR			
901	08.00	MTWTH	H1	143	
902	09.00	MTWTH	H1	143	
903	10.00	MTWTH	H1	143	
904	12.00	MTWTH	H1	143	
905	01.00	MTWTH	H1	143	
906	03.00	MTWTH	AV TEC	101	
211A	POLITICAL ECONOMY	04.0 CR			
901	10.00	MTWTH	M3	103	
902	11.00	MTWTH	H1	143	
903	04.00	MTWTH	H1	143	
211B	POLITICAL ECONOMY	04.0 CR			
901	08.00	MTWTH	H3	154	SHIN WANGSHIK
902	10.00	MTWTH	H3	154	SHIN WANGSHIK
903	11.00	MTWTH	AVTECH	101	CISSELL ALLEN
904	12.00	MTWTH	H3	154	CISSELL ALLEN
905	03.00	MTWTH	H3	154	CISSELL ALLEN
906	04.00	MTWTH	H3	154	SHIN WANGSHIK

General Studies Area D—Organization and Communication of Ideas (GSD)

101	ENGLISH COMPOSITION	03.0 CR			
901	08.00	M W F	H3	153	
902	11.00	M W F	H3	153	

903	12.00	M W F	H3	153
904	01.00	M W F	H3	153
905	02.00	M W F	H3	153
906	03.00	M W F	H3	153
907	04.00	M W F	AV CL	101
102	ENGLISH COMPOSITION			03.0 CR
901	08.00	M W F	H3	151
902	09.00	M W F	H3	153
903	10.00	M W F	H3	153
904	10.00	M W F	H3	151
905	11.00	M W F	H9	101
906	12.00	M W F	M3	103
907	01.00	M W F	H9	101
908	02.00	M W F	H3	151
909	03.00	M W F	H3	151
910	04.00	M W F	H3	153

103	ORAL COMM OF IDEAS			03.0 CR
901	08.00	MTWTH	AV CL	101
902	08.00	MTWTH	H9	101
903	10.00	MTWTH	H9	101
904	12.00	MTWTH	H9	101
905	02.00	MTWTH	H9	101
906	04.00	MTWTH	H9	101

WORKUN ARTHUR
BEAVEN MITCHELL E
BEAVEN MITCHELL E
BEAVEN MITCHELL E
WORKUN ARTHUR
WORKUN ARTHUR

Mathematics (MATH)

111A	COL ALGEBRA TRIG			05.0 CR
901	09.00	MTWTHF	H3	154
902	11.00	MTWTHF	H3	154
903	12.00	MTWTHF	H3	151

Accounting (*ACC)

101A	ACCOUNTING			04.0 CR
1	09.00	MTWTHF	FI	111
2	03.00	MTWTHF	FI	111

101B	ACCOUNTING	04.0 CR
	PREREQ *ACC 101A	

1	08.00	MTWTHF	FI	108	VAUGHN FRANK EUGENE
2	09.00	MTWTHF	FI	108	VAUGHN FRANK EUGENE
3	02.00	MTWTHF	FI	108	KURUC JOHN L
4	03.00	MTWTHF	FI	108	MARKWELL JAMES K
5	04.00	MTWTHF	FI	108	

104	SECRETARIAL ACCTG			05.0 CR	
1	01.00	MTWTHF	FI	111	RICHEY HELEN E
2	06.30-09.00 PM	T TH	FI	111	

109A	CALC MACH			03.0 CR
1	10.00	MTWTHF	FI	113
2	11.00	MTWTHF	FI	113
3	06.30-09.00 PM	M W	FI	113

109B	CALC MACH			03.0 CR	
1	01.00	MTWTHF	FI	113	JOHNSTON G

126	FUND OF BUSINESS			03.0	CR	
1	01.00	M W F	FI		108	KURUC JOHN L
2	06.30-08.00 PM	T TH	FI		108	

204B	COST ACCOUNTING			04.0 CR
	PREREQ 204A			

1	09.00	MTWTHF	H4	233	MARKWELL JAMES K
2	11.00	MTWTHF	H4	233	

226A	BUSINESS LAW			04.0 CR				
1	11.00	MTWTH	FI	108	CUNDIFF	JOHN WILLIAM		
2	01.00	MTWTH	H4	233	CUNDIFF	JOHN WILLIAM		

226B	BUSINESS LAW	04.0 CR			
1	02.00	MTWTH	H4	233	CUNDIFF JOHN WILLIAM

227	OFFICE ADMIN + SUP	04.0 CR
	PREREQ *ACC 126	

1	04.00	MTWTHF	FI	111	MARKWELL JAMES K
233	FEDERAL TAXES			04.0 CR	

1	08.00	MTWTHF	H4	233	CUNDIFF JOHN WILLIAM
235	BUSINESS STATISTICS			04.0 CR	

235	00.00	MTWTHF	FI	111	VAUGHN FRANK EUGENE
	BUSINESS STATISTICS			04.0	CR
	PREREQ	*ACC 101A,*BC100			
1	11.00	MTWTHF	FI	111	VAUGHN FRANK EUGENE
2	12.00	MTWTHF	FI	111	VAUGHN FRANK EUGENE
3	02.00	MTWTHF	FI	111	

Architectural Drafting (*AD)

110B	ARCHITECT DRAFTING				03.0 CR	
	PREREQ	*AD 110A				
1	08.00-10.50	T TH	MI	113	LOUGEAY PAUL J	
2	08.00-10.50	M W	HI	144	LETE JOSEPH R	
3	01.00-03.50	M W	MI	113	RUTLEDGE CLIFTON D	
121A	ARCHITECT DESIGN				02.0 CR	
	PREREQ	*AD 110A, 146A, CR	CONSENT OF AD			
	VISER					
1	08.00-09.50	W F	MI	108	LOUGEAY PAUL J	
2	10.00-11.50	W F	MI	108	LETE JOSEPH R	
3	02.00-03.50	M W	HI	144	LITTLE HAROLD EDMON	
146B	FREEHAND ARCH GRAPH				03.0 CR	
1	08.00-10.50	T TH	HI	144	LITTLE HAROLD EDMON	
2	01.00-03.50	T TH	MI	108	LOUGEAY PAUL J	
3	01.00-03.50	T TH	MI	113	LITTLE HAROLD EDMON	
221B	ARCHITECTURAL DES				04.0 CR	
1	08.00-10.50	M W F	MI	113		
2	02.00-04.50	M W F	MI	108	RUTLEDGE CLIFTON D	
250B	MATERIALS + METHODS				04.0 CR	
1	08.00-11.50	T TH	MI	108		
	12.00	W	MI	112		
2	01.00-04.50	T TH	HI	144	LETE JOSEPH R	
	12.00	W	MI	112	LETE JOSEPH R	
283	CONSTRUCT COST EST				03.0 CR	
	PREREQ	*AD 250 CR	CONSENT OF ADVISER			
1	11.00	M W F	MI	113	RUTLEDGE CLIFTON D	
2	01.00	M W F	MI	112	BASSETT	
290A	STRUCT THE-CONCRETE				03.0 CR	
1	11.00	M W F	MI	108	LITTLE HAROLD EDMON	
2	02.00	M W F	MI	112	BASSETT	

Aviation Technology (*AT)

101	ARCFT RECIPROCAT PP				06.0 CR	
1	09.00	M W F	AVTECH	101	BURKEY PAUL	
	10.00-12.50	M W F	AVTECH	102	STAPLES LAURENCE C	
102	CARB + LUB SYSTEMS				06.0 CR	
1	02.00	M W F	AVTECH	101	SCHAFER JOSEPH ALLEN	
	09.00-12.50	T TH	AVTECH	102	SCHAFER JOSEPH ALLEN	
103	ARCFT ELECT GEN-ALT				06.0 CR	
1	08.00	MTWTHF	AVTECH	101	DAROSA EDMUND A	
	09.00-10.50	M W F	AVTECH	102	DAROSA EDMUND A	
104	PROPELLORS				05.0 CR	
1	09.00	T TH	AVTECH	101	BURKEY PAUL	
	02.00	F	AVTECH	102	BURKEY PAUL	
	10.00-12.50	T TH	AVTECH	102	BURKEY PAUL	
105	AIRCRAFT INSTRUMENTS				04.0 CR	
1	12.00	W	AVTECH	101	SCHAFER JOSEPH ALLEN	
	04.00	T TH	AVTECH	101	SCHAFER JOSEPH ALLEN	
	02.00-03.50	T TH	AVTECH	102	SCHAFER JOSEPH ALLEN	
106	ARCFT IGN-START SYS				05.0 CR	
1	11.00	T TH	AVTECH	101	CANNON RICHARD	
	08.00-10.50	T TH	AVTECH	102	CANNON RICHARD	
	08.00-09.50	W	AVTECH	102	CANNON RICHARD	
107	FABRIC-WOOD-DOPING				04.0 CR	
1	10.00	T	AVTECH	102	RICH DAVID L	
	12.00	T TH	AVTECH	102	RICH DAVID L	
	01.00-03.50	T TH	AVTECH	102	RICH DAVID L	
108	JET PROPULSION PP				06.0 CR	
1	01.00	M W F	AVTECH	102	DAROSA EDMUND A	
	11.00	W	AVTECH	101		
	02.00-03.50	M W F	AVTECH	102		
109	POWERPLANT TESTING				04.0 CR	
1	11.00	M F	AVTECH	101	SCHAFER JOSEPH ALLEN	
	08.00-10.50	M F	AVTECH	102	SCHAFER JOSEPH ALLEN	
110	AIRC STRUCT AND REP				03.0 CR	
1	08.00	F	AVTECH	101	RICH DAVID LOUIS	
	04.00	T TH	AVTECH	102	RICH DAVID LOUIS	
203	AERODYNAMICS				05.0 CR	
1	09.00	M F	AVTECH	102	CANNON RICHARD	
	12.00	W	AVTECH	101	CANNON RICHARD	
	10.00-11.50	M F	AVTECH	102	CANNON RICHARD	

204	AIRCRAFT HYDRAULICS			05.0 CR	
1	08.00	MT TH	AVTECH	102	CHMAN LENNART R
	08.00-10.50	W F	AVTECH	102	CHMAN LENNART R
2	11.00	M W F	AVTECH	102	CHMAN LENNART R
	01.00-02.50	M W F	AVTECH	102	CHMAN LENNART R
205	PRESS, AIR COND SYS			03.0 CR	
1	09.00-10.50	M	AVTECH	102	CHMAN LENNART R
	02.00	T	AVTECH	102	
	03.00	F	AVTECH	101	
2	11.00	T TH	AVTECH	102	
	01.00-02.50	TH	AVTECH	102	
206	METAL + PROCESSING			04.0 CR	
1	09.00	T TH	AVTECH	102	RITER RUSSELL W
	10.00-12.50	T TH	AVTECH	102	
2	10.00	M F	AVTECH	102	RITER RUSSELL W
	08.00-09.50	M W F	AVTECH	102	RITER RUSSELL W
208	ARCFT FUEL SYSTEMS			02.0 CR	
1	10.00	W F	AVTECH	101	COLLETT ROBERT J
	08.00	W	AVTECH	102	COLLETT ROBERT J
2	02.00	W	AVTECH	101	COLLETT ROBERT J
	08.00-09.50	T	AVTECH	102	
209	WT BALANCE INSPECT			06.0 CR	
1	02.00	M	AVTECH	101	COLLETT ROBERT J
	11.00	F	AVTECH	101	
	03.00	T TH	AVTECH	101	COLLETT ROBERT J
	08.00-10.50	M W	AVTECH	102	RICH DAVID LOUIS
	08.00	F	AVTECH	102	COLLETT ROBERT J
2	02.00-04.50	M W	AVTECH	102	RICH DAVID LOUIS
	02.00	T TH	AVTECH	102	COLLETT ROBERT J
	04.00	F	AVTECH	101	COLLETT ROBERT J
	09.00	W F	AVTECH	101	COLLETT ROBERT J
217	RADIO OPER-INSTALL			01.0 CR	
1	02.00	TH	AVTECH	102	RITER RUSSELL W
	01.00-02.50	F	AVTECH	102	RITER RUSSELL W
2	04.00	T	AVTECH	102	RITER RUSSELL W
	10.00	W	AVTECH	102	RITER RUSSELL W
	03.00	F	AVTECH	102	RITER RUSSELL W
220	JET TRANS AIR SYS			03.0 CR	
1	09.00	TH	AVTECH	101	COLLETT ROBERT J
	08.00	TH	AVTECH	102	COLLETT ROBERT J
	02.00	T	AVTECH	102	COLLETT ROBERT J
	01.00-02.50	F	AVTECH	102	COLLETT ROBERT J
2	09.00-10.50	M	AVTECH	102	COLLETT ROBERT J
	10.00	T TH	AVTECH	101	COLLETT ROBERT J
230A	PRIVATE PILOT			02.0 CR	
1	TO BE ARRANGED				PATCHETT SAM
230B	PRIVATE PILOT			01.0 CR	
1	TO BE ARRANGED				PATCHETT SAM
231	BASIC FLIGHT			03.0 CR	
	PREREQ *AT 230				
1	TO BE ARRANGED				PATCHETT SAM
232	INTERMEDIATE FLIGHT			03.0 CR	
	PREREQ *AT 231				
1	TO BE ARRANGED				PATCHETT SAM
233	ADVANCED FLIGHT			03.0 CR	
	PREREQ *AT 232				
1	TO BE ARRANGED				PATCHETT SAM
234	INSTRUMENT FLIGHT			03.0 CR	
	PREREQ *AT 233				
1	TO BE ARRANGED				PATCHETT SAM

Automotive Technology (*AUT)

101A	AUTO LAB--ENG			05.0 CR	
1	08.00-10.50	MTWTHF	L2	108	WHITE JAMES EDWIN
101B	AUTO LAB-BR + STEER			05.0 CR	
1	08.00-10.50	MTWTHF	L1	108	RUNKLE LEWIS
2	11.00-01.50	MTWTHF	L1	108	JONES PAUL F
101C	AUTO LAB-IGN + CARB			05.0 CR	
1	02.00-04.50	MTWTHF	L2	108	MCDONALD JAMES H
125A	AUTO THE--ENGINES			05.0 CR	
1	11.00	MTWTHF	L2	105	WHITE JAMES EDWIN

125B	AUTO THE-BR + STEER			05.0	CR	
1	12.00	MTWTHF	L2	105	RUNKLE LEWIS	
2	03.00	MTWTHF	L2	105	JONES PAUL F	
125C	AUTO THE-IGN + CARB			05.0	CR	
1	09.00	MTWTHF	L2	105	MCDONALD JAMES H	
201A	AUTO LAB-POWER OPT			05.0	CR	
	PREREQ 101C AND 125C					
1	02.00-04.50	MTWTHF	L2	102	KAZDA JOSEPH G	
201B	AUTO LAB-TRANS PCWR			05.0	CR	
	PREREQ 101C AND 125C					
1	09.00-11.50	MTWTHF	L2	102	RCMACK CHARLES	
201C	AUTO LAB-DIAGNOSIS			05.0	CR	
	PREREQ 101C AND 125C					
1	02.00-04.50	MTWTHF	L1	108	SHELTON EVERETT E	
220A	AUTO TH-POWER OPT			05.0	CR	
	PREREQ 101C AND MUST BE TAKEN CONCURRENTLY WITH 201					
1	10.00	MTWTHF	L2	105	KAZDA JOSEPH G	
220B	AUTO TH-TRANS POWER			05.0	CR	
	PREREQ 101C AND MUST BE TAKEN CONCURRENTLY WITH 201					
1	08.00	MTWTHF	L2	105	WILLEY LUCIAN D	
220C	AUTO TH-DIAGNOSIS			05.0	CR	
	PREREQ 101C AND MUST BE TAKEN CONCURRENTLY WITH 201					
1	01.00	MTWTHF	L2	105	SHELTON EVERETT E	

Building Construction Technology (*BC)

210A	CONSTRUCTION			03.0	CR	
1	11.00	M W F	L4	106		

Commercial Art (*CA)

130	AD DESIGN + PRODUCT			10.0	CR	
	PREREQ *CA 125					
1	08.00-11.50	MTWTHF	NI	101	SWAYNE DORIS M	
2	01.00-04.50	MTWTHF	NI	101	BOZA GERTRUDE M	
135	LAYOUT AND COLOR			02.0	CR	
1	12.00	T TH	NI	101	BOZA	
210B	ADVER + STORY ILLUS			08.0	CR	
1	08.00-11.50	M W F	NI	107	HOFFMAN RICHARD A	
2	01.00-04.50	M W F	NI	107	RUYLE KERMIT L	
230B	TECHNICAL ILLUST			07.0	CR	
1	08.00-11.50	T TH	NI	107	HOFFMAN RICHARD A	
2	01.00-04.50	T TH	NI	107	RUYLE KERMIT L	

Corrections and Law Enforcement (*CLE)

105	CRIMINAL BEHAVIOR			04.0	CR	
1	05.45-09.00	TH	H3	151	BURNS HENRY JR	
107	LAW ENF COM PROB			03.0	CR	
1	06.30-09.00 PM	T	H3	151	BURNS HENRY JR	
205	PRIN OF INVEST			04.0	CR	
1	05.45-09.00	TH	H3	153		
207	ASSESS IN CRIM			03.0	CR	
1	06.30-09.00 PM	T	H3	153		
209	LAW AND CORR			03.0	CR	
1	06.30-09.00 PM	W	H3	153		

Data Processing (*DP)

101A	AUTO DATA PROC MACH			05.0	CR	
1	01.00	MTWTHF	H4	134	STARKEY RICHARD D	
	02.00	MTWTHF	H8	235		
103A	COMP PROG			05.0	CR	
1	08.00-08.30	MTWTHF	H4	134	DICK ROBERT OLIVER	
	09.00	MTWTHF	H8	235		
2	11.00	MTWTHF	H4	134	FITZPATRICK MICHAEL	
	12.00	MTWTHF	H8	235		
3	02.00	MTWTHF	H4	134	DICK ROBERT OLIVER	
	03.00	MTWTHF	H8	235		
202B	INDUST COMPUT PROG			05.0	CR	
	PREREQ 202A					
1	03.00-04.50	MTWTHF	WHAM	24		
203B	BUS COMP PROG			05.0	CR	
	PREREQ 203A					

1	08.00	MTWTHF	H4	133	STARKEY RICHARD D
	09.00	MTWTHF	H8	235	
2	03.00	MTWTHF	H4	133	LCHMEIER DAVID D
	04.00	MTWTHF	H8	235	
205	SYSTEM DES + DEVEL			05.0	CR
	PREREQ *DP 104				
1	10.00	MTWTHF	H4	133	
2	02.00	MTWTHF	H4	133	

Dental Hygiene (*DH)

132B	HEAD NECK ANATOMY			04.0	CR	
1	09.00-11.50	M W	F3	144	BYKOWSKI PETER	
	09.00-11.50		FI	110	WILLIS ALAN D	
2	02.00-04.50	M W	F3	144	MORR DOUGLAS	
	09.00-11.50		FI	110	WILLIS ALAN D	
135B	ORAL BASIC SCIENCE			04.0	CR	
1	09.00-11.50	M W	FI	109	BUSHEE ELEANOR JANE	
2	02.00-04.50	M W	FI	109	BUSHEE ELEANOR JANE	
137A	PRECLINICAL DEN HYG			04.0	CR	
1	09.00-11.50	T TH	FI	109	JOHNSON JANE	
2	01.00-03.50	T TH	FI	109	JOHNSON JANE	
210B	CLINICAL DENTAL HYG			05.0	CR	
1	09.00-11.50	MTW F	F3	132	STARR	
	12.00		FI	110	PIERPONT	
2	01.00-03.50	MTW F	F3	132	STARR	
	12.00		FI	110	BUSHEE ELEANOR JANE	
218C	CLIN DENT ROENTGEN			02.0	CR	
	PREREQ *DH 218B					
1	08.00-09.50	TH	FI	110	BUSHEE ELEANOR JANE	
2	10.00-11.50	TH	FI	110	BUSHEE ELEANOR JANE	
220	DENT PUBLIC HEALTH			03.0	CR	
1	02.00-04.50	TH	FI	110	CAVANESE GEORGE R	

Dental Laboratory Technology (*DT)

101B	DENTAL PROSTHET LAB			06.0	CR	
1	02.00-04.50	M W F	F3	128		
	01.00-04.50	T TH	F3	128		
2	02.00-04.50	M W F	F3	127	BYKOWSKI PETER	
	01.00-04.50	T TH	F3	127	BYKOWSKI PETER	
113A	SCIENCE DENT MATLS			03.0	CR	
1	09.00	M W F	FI	112	LEEBENS WILLIAM M	
2	12.00	M W F	FI	109		
125B	DENT PROSTH THEORY			03.0	CR	
1	01.00	M W F	FI	110		
2	01.00	M W F	F3	127	BYKOWSKI	
128	ORAL ANATOMY			02.0	CR	
1	09.00	T TH	FI	112	LEEBENS WILLIAM M	
2	12.00	T TH	FI	109		
201B	CROWN + BRIDGE LAB			06.0	CR	
1	09.00-11.50	M W F	F3	128	CHRISTY CHARLES Q	
	08.00-11.50	T TH	F3	128	CHRISTY CHARLES Q	
2	09.00-11.50	M W F	F3	127	MORR DOUGLAS	
	08.00-11.50	T TH	F3	127	MORR DOUGLAS	
225B	CROWN + BRIDGE THEC			03.0	CR	
1	08.00	M W F	F3	128	CHRISTY CHARLES Q	
2	08.00	M W F	F3	127	MORR DOUGLAS	

Electronics Technology (*ELT)

101B	BASIC ELEC AP + SYS			04.0	CR	
1	08.00-09.50	MTWTHF	M3	109	SCHULTZ RAYMOND	
2	01.00-02.50	MTWTHF	M3	109	BARNES EDWARD N	
125B	BASIC ELECT THEO			05.0	CR	
1	12.00	MTWTHF	M3	110	SCHULTZ RAYMOND	
2	12.00	MTWTHF	M3	107	BARNES EDWARD N	
129	ELECTRICAL CIRCUITS			03.0	CR	
1	10.00	M W F	M3	109	CORBELL DENNY M	
2	03.00	M W F	M3	109	BARNES EDWARD N	
201A	ADV ELECT APPL			04.0	CR	
1	10.00-11.50	MTWTHF	M3	112	CALDWELL PAUL NEWELL	
2	02.00-03.50	MTWTHF	M3	112	CORBELL	
225A	ADV IND SYSTMS THEC			05.0	CR	
1	09.00	MTWTHF	M3	110	CALDWELL PAUL NEWELL	

Forest Products Technology (*FP)

101B	WOODWORK-CAB + MILL				05.0	CR	
1	09.00-11.50	M W F	L4	108	CARMAN	ALGA LEE	
	08.00-10.50	T TH	L4	108	CARMAN	ALGA LEE	
125B	PROD WOODWKG THEORY				03.0	CR	
1	08.00	M W F	L4	106	CARMAN	ALGA LEE	
130	LUMBER SEASONING				03.0	CR	
1	09.00	M W F	L4	106	CSBORN	HAROLD WIL	
201B	WOODWORK-PREFABICAT				05.0	CR	
1	02.00-04.50	MTWTHF	L4	108	CSBORN	HAROLD WIL	
225B	PROD WOODWKG THEORY				03.0	CR	
1	01.00	M W F	L4	106	CSBORN	HAROLD WIL	

General (*GEN)

101	BUSINESS CORRESP			03.0	CR	
	PREREQ GSD 101A					
1	11.00	M W F	FI	102		
2	02.00	M W F	FI	102		
102	TECHNICAL WRITING			03.0	CR	
1	09.00	M W F	H9	101		
2	12.00	M W F	FI	108		
3	01.00	M W F	AVTECH	101		
4	04.00	M W F	H4	233		
105A	BUS + TECH MATH			03.0	CR	
	PREREQ SATISFACTORY ACT MATH SCORE OR					
	*GEN 106					
1	10.00	M W F	H4	233		
2	02.00	M W F	H1	143		
105B	BUS + TECH MATH			03.0	CR	
	PREREQ SATISFACTORY ACT MATH SCORE OR					
	*GEN 106					
1	09.00	M W F	H3	151	CRENSHAW J HOWARD	
2	11.00	M W F	AVTECH	101		
3	01.00	M W F	H3	151	CRENSHAW J HOWARD	
4	03.00	M W F	H3	151	CRENSHAW J HOWARD	
5	04.00	M W F	H3	151		
115B	INTRO TO CHEMISTRY			04.0	CR	
	PREREQ 115A					
1	01.00	M W F	F3	144	SMITH DONALD	
	01.00-03.50	TH	F3	144	SMITH DONALD	
2	01.00	M W F	F3	144	SMITH DONALD	
	09.00-11.50	TH	F3	144	SMITH DONALD	
118	APP CALCULUS			04.0	CR	
	PREREQ GSD 114A,114C					
1	09.00	MTWTH	H9	101	VENABLE CHARLES	
2	03.00	MTWTH	H3	151	VENABLE CHARLES	
120	APPLIED PHYSICS			04.0	CR	
	PREREQ GSA 101A,*GEN 107					
1	08.00	M W	M3	101	HARBISON JAMES L	
	08.00-09.50	T TH	M3	101	HARBISON JAMES L	
2	01.00	M W	M3	101		
	01.00-02.50	T TH	M3	101		
141	INTRO TO PHYSIOLOGY			05.0	CR	
1	08.00	MTWTHF	F3	144		
201	JOB ORIENTATION			02.0	CR	
1	01.00	T TH	H3	151	ELDER WALTER J	
	SUBJECT RETAILING					
232	MGT-LABOR RELATIONS			04.0	CR	
1	01.00	MTWTH	AVTECH	101		
2	02.00	MTWTH	H3	154		

Highway and Civil Technology (*HCT)

101B	SURVEYING			03.0	CR	
1	08.00-09.50	M W F	L3	119	BASSETT F A	
103	BASIC MATERIALS			03.0	CR	
1	09.00-11.50	T TH	L3	119	BASSETT F A	
105A	STRUCTURAL DRAFTING			03.0	CR	
1	10.00-11.50	M W F	L3	119	BASSETT F A	
205	BIT MATERIALS			02.0	CR	
1	02.00-03.50	T	L3	119		
	02.00	TH	L3	119		

207A	CIVIL CONSTRUCTION		05.0 CR	
1	01.00	MTWTHF	L3	119

Machine Drafting and Design Technology (*MT)

101B	GRAPHICS		07.0 CR	
1	08.00-10.50	MTWTHF	MI	101
2	02.00-04.50	MTWTHF	MI	101
127	ELEC HYD PN CONTRLS		03.0 CR	
	PREREQ	101 VTI G 107		
1	08.00	M W F	LI	105
2	03.00	M W F	LI	105
175A	TECHNICAL DRAWING		03.0 CR	
1	09.00	MTWTHF	H3	147
2	02.00	MTWTHF	H3	147
3	03.00	MTWTHF	AVTECH	102
4	04.00	MTWTHF	AVTECH	102
175B	TECHNICAL DRAWING		03.0 CR	
1	08.00	MTWTHF	H3	147
201B	MACH DRAFTG DESIGN		05.0 CR	
	PREREQ	127 AND 226 CONCURRENTLY OR CONSENT OF ADVISER		
1	11.00-01.50	MTWTHF	MI	101
226B	STAT STRENGTH MAT		03.0 CR	
	PREREQ	D201B CONCURRENTLY, OR OF ADVISER		
1	10.00	M W F	H3	147

Mortuary Science (*MS)

101B	FUNERAL HIST + CUST		03.0 CR	
1	08.00	M W F	L3	109
110	EMBALMING CHEMISTRY		04.0 CR	
	PREREQ	INTRO COURSE IN CHEM		
1	12.00	M W F	F3	144
	10.00-12.50	T	F3	144
202B	RESTORATIVE ART		03.0 CR	
1	TO BE ARRANGED			
205B	PATHOLOGY		03.0 CR	
1	04.00	M W F	L3	109
206	INTRODUCTORY MICRO		05.0 CR	
1	01.00	M W F	L3	109
	09.00-11.50	F	F3	144
	02.00-04.50	T	F3	144
210A	PSYCH FUNERAL SERV		03.0 CR	
	PREREQ	PSYC 305 CR 307		
1	02.00	M W F	L3	109
225A	EMBALM TH + PRAC		05.0 CR	
1	03.00	M W F	L3	109
	02.00-04.50	TH	L3	106
	08.00-10.50	T	L3	106

Physical Therapy (*PTH)

100B	PHYS THERAPY ORIENT		01.0 CR	
	PREREQ	100A		
1	01.00	M W	WHAM	328
205	PHYS THERAPY SCIENC		03.0 CR	
	PREREQ	PTH 100		
1	02.00-03.50	T	LS I	205
207	MASSAGE		02.0 CR	
	PREREQ	PHSL 300-4, GSA 301-4		
1	01.00	W	WHAM	328
221	CLINICAL INTERNSHIP		06.0 CR	
	PREREQ	ALL REQUIREMENTS OF PROGRAM		
1	TO BE ARRANGED			
222	CLINICAL SEMINAR		02.0 CR	
	PREREQ	CONCURRENT REGISTRATION IN PTH 221		
1	TO BE ARRANGED			

Practical Nursing (*PN)

102	PRACTICAL NURSING I		07.0 CR	
	PREREQ	101		

1	08.00-11.50	M	H5	210	
	01.00-03.50	MTWTHF	H5	210	
	08.00-11.50	TWTHF	HOSP	101	MITCHELL WINIFRED
103A	CLINICAL NURSING			06.0 CR	
1	08.00-04.00 PM	MTWTH	HOSP	101	
	08.00-12.00 PM	F	H9	201	MITCHELL WINIFRED
	01.00-04.00	F	H9	201	
103B	CLINICAL NURSING			12.0 CR	
1	08.00-04.00	MTWTH	HOSP	101	
	08.00-12.00	F	H9	201	
	01.00-04.00	F	H9	201	

Printing Technology (*PT)

101B	PRESS LAB-AUTO PLAT			06.0 CR	
1	02.00-04.50	MTWTHF	L3	110	BRITT DAVID A
125B	PRESS THE-AUTO PLAT			03.0 CR	
1	01.00	M W F	L3	110	BRITT DAVID A
153	PRINT LAY + DESIGN			03.0 CR	
1	10.00	M W F	L4	106	BRITT DAVID A
201B	COMPOSITION LAB			06.0 CR	
1	08.00-10.50	MTWTHF	L3	110	CORNELL
225B	COMPOSITION THEGRY			03.0 CR	
1	11.00	M W F	L3	109	CORNELL
235	PRINT THEO + PRACT			02.0 CR	
	PREREQ N210A,B AND 230A,B				
1	12.00-01.50	T TH	L3	110	CORNELL

Retailing, Cooperative (*RET)

127A	SALESMANSHIP			03.0 CR	
1	09.00	M W F	FI	106	THOMPSON
127B	SALESMANSHIP			03.0 CR	
1	02.00	M W F	FI	106	ELDER WALTER J
177B	PRODUCT INFO LAB			05.0 CR	
1	10.00-11.50	MTWTHF	FI	112	THOMPSON RONALD W
179	RETAIL MATHEMATICS			05.0 CR	
1	03.00	MTWTHF	FI	112	SODERSTROM
205	MERCHANDISING PRIN			04.0 CR	
1	11.00	MTWTH	FI	106	SODERSTROM
206	RECORDS + STATISTIC			05.0 CR	
1	10.00	MTWTHF	FI	111	SODERSTROM RUTH B
207A	SALES PROMOTION			04.0 CR	
1	08.00	MTWTH	FI	106	ELDER
207B	SALES PROMOTION			02.0 CR	
1	09.00	T TH	FI	106	ELDER WALTER J
208B	FASHION MERCH			02.0 CR	
1	01.00	T TH	FI	112	SODERSTROM
224	RET STORE ORG + MGT			04.0 CR	
1	08.00	MTWTH	FI	112	THOMPSON
227	PERSONNEL MGT			03.0 CR	
1	01.00	M W F	FI	112	SODERSTROM RUTH B

Secretarial (*SCR)

101B	TYPEWRITING			03.0 CR	
1	11.00	MTWTHF	FI	121	GREATHOUSE LILLIAN
2	12.00	MTWTHF	FI	121	
3	01.00	MTWTHF	FI	121	CASE RONALD L
4	02.00	MTWTHF	FI	121	RICHEY HELEN E
5	03.00	MTWTHF	FI	121	
6	06.30-09.00 PM	T TH	FI	121	
104B	SHORTHAND			06.0 CR	
1	08.00	MTWTHF	FI	111	
	09.00	MTWTHF	FI	121	
2	09.00-10.50	MTWTHF	FI	102	
3	10.00	MTWTHF	FI	108	
	11.00	MTWTHF	FI	107	
4	01.00-02.50	MTWTHF	FI	107	
5	03.00-04.50	MTWTHF	FI	107	
107	FILING + DUPLICTG			03.0 CR	
	PREREQ 101A OR CCNSENT OF ADVISER				
1	08.00	MTWTHF	FI	121	CASE RONALD L
2	06.30-09.00 PM	M W	FI	121	

1208	MACHINE SHORTHAND			06.0	CR	
1	03.00-04.50	MTWTHF	FI	102		GARRISON MARY M
205B	TYPEWRITING			03.0	CR	
1	10.00	MTWTHF	FI	107		GARRISON MARY M
2	12.00	MTWTHF	FI	107		GARRISON MARY M
214	COOP SEC EXP		02.0 TO	05.0	CR	
1	TO BE ARRANGED					JOHNSTON CHESTER E
224	LEGAL SHORTHAND			06.0	CR	
1	08.00-09.50	MTWTHF	FI	107		MIRIANI THERESA B
2	03.00	MTWTHF	FI	103		MIRIANI THERESA B
2	03.00	MTWTHF	FI	103		MIRIANI THERESA B
	04.00	MTWTHF	FI	121		MIRIANI THERESA B
225A	MEDICAL SHORTHAND			06.0	CR	
1	12.00-01.50	MTWTHF	FI	102		TOOLEY JAMES E

Tool and Manufacturing Technology (*TT)

101B	M TOOL LAB-ENG LATH			05.0	CR	
1	10.00-12.50	MTWTHF	LI	101		SANDERS EUGENE T
2	01.00-03.50	MTWTHF	LI	101		MURDCK ROBERT D
125B	M TOOL THE-MACH			03.0	CR	
1	04.00	M W F	MI	107		MURDCK ROBERT D
175	MACHINE SHOP PRACT			03.0	CR	
1	04.00	MTWTHF	LI	101		
176B	MANUFACTURING PRCC			03.0	CR	
1	10.00	M W F	MI	107		TRAYLOR GEORGE LELON
2	01.00	M W F	MI	107		BEAUCHAMP CLARENCE J
201B	ADV T LAB-PROD MACH			03.0	CR	
1	08.00-09.50	MTWTHF	LI	101		TRAYLOR GEORGE LELON
225B	AD M TOOL THE-PRCC			03.0	CR	
1	11.00	M W F	MI	107		TRAYLOR GEORGE LELON
275B	METALLURGY-FERROUS			03.0	CR	
1	02.00	MTWTHF	M4	102		DALLMAN
2	03.00	MTWTHF	M4	102		DALLMAN MURNICE H

Welding (*WEL)

175	OXY-ACET-ELEC ARC			03.0	CR	
1	11.00	MTWTHF	M4	108		
2	03.00-04.50	M W F	M4	108		

Avoid scheduling two classes at the same time. It is suggested that you make an alternative schedule. Tentative class schedules are subject to the rules and policies on registration of the University and the Registration Center.

- This form is provided for your use in establishing a tentative 2. Avoid scheduling two classes at the same time.

[illegible]

Southern Illinois University Bulletin
Carbondale, Illinois 62901

Second Class Postage paid at
Carbondale, Illinois 62901

Southern Illinois University
Bulletin

Schedule of Classes
Edwardsville Campus

Winter Quarter, 1970



This Bulletin

contains the schedule of classes to be offered by the Edwardsville Campus for the winter quarter, 1970. It also provides information relative to admission, advisement, registration, and fees.

Schedule of Classes

Winter, 1970

Edwardsville Campus



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Contents

University Calendar	iii
Registration Calendar	iv
GENERAL INFORMATION	1
Guaranteed Center Schedule	1
Admission	1
Social Security Number	1
Required Tests	2
Advisement	2
Required Physical Examinations	2
Registration	3
New Students	3
Re-Entering Students	3
Current Students, Edwardsville Campus	3
Current Students, Carbondale Campus	4
Payment of Fees	4
Fees for a Regular Quarter	4
Late Registration Fee	5
Changing Fee Status	5
Academic Load	5
Prerequisites	6
Auditing of Courses	6
Registering for and Dropping Courses	6
Withdrawal from School	7
Cancellation of Registration	7
Personal Data Changes	7
Hospitalization	7
SCHEDULE OF CLASSES	9
Explanation of the Schedule	9
Final Examinations	11
Winter Classes	13

University Calendar

FALL, 1969 New Student Week

Sunday–Tuesday,
September 21–23

Quarter Begins

Wednesday, September 24
(Classes 4:30 P.M. or later)

Thanksgiving Vacation

Tuesday, 10 P.M.–

Monday, 8 A.M., November 25–December 1

Final Examinations

Monday–Saturday,
December 15–20

WINTER, 1970 Quarter Begins

Monday, January 5
(Classes 4:30 P.M. or later)

Final Examinations

Monday–Saturday,
March 16–21

SPRING, 1970 Quarter Begins

Monday, March 30
(Classes 4:30 P.M. or later)

Memorial Day Holiday

Friday, May 29

Final Examinations Monday–Saturday, June 8–13

Commencement (Carbondale)

Friday, June 12

Commencement (Edwardsville)

Saturday, June 13

Registration Calendar, Winter, 1970

EDWARDSVILLE CAMPUS

October 6–January 5.

General Studies Advisement, by appointment (call General Studies Office.)

December 8–13.

Open registration. Mon.–Fri. 8:30 A.M.–12:00 noon, 1:00–4:00 P.M.; Sat. 8:30–11:30 A.M.

December 29–30.

Open registration. 8:30 A.M.–12:00 noon, 1:00–6:30 P.M.

December 31.

Open registration. 8:30–11:30 A.M.

January 5.

Central registration. 8:30 A.M.–6:30 P.M.

ALTON CENTER

Registration will be held in the Student Union.

December 20.

Open registration. 9:00 A.M.–3:00 P.M.

ALL LOCATIONS

December 29.

First day for program changes.

January 5.

Evening classes (4:30 P.M. or later) begin.

January 6.

Day classes begin.

January 12.

Last day to add a class.

January 19.

Last day to be eligible for a refund of fees.

February 2.

Last day to withdraw from a class without receiving a grade.

March 2.

Last day to withdraw from school or a class.

1 / General Information

THIS BULLETIN contains the schedule of classes to be offered for the winter quarter of the 1969-70 school year. It also provides information relative to advisement and registration, fees, and allied information.

The Edwardsville Campus provides a full schedule of class offerings for day and evening students. Freshman and sophomore courses are scheduled for day and evening students at the Alton Center.

Guaranteed Center Schedule

A Guaranteed Schedule for the Alton Center has been established. Certain courses and sections at the Center are guaranteed on schedules extending through the fall, winter, and spring quarters. These classes will not be cancelled; they are coordinated to offer a variety of full-time academic programs for the incoming freshman as a day student, and they permit efficient progress for the new freshman evening student.

Classes at the Alton Center marked with a + in the schedule are part of this program. For details concerning the full year's schedule, see the separate brochure for the Alton Center.

Admission

Inquiries concerning admission to Southern Illinois University should be directed to the Admissions Office at Edwardsville. Applications for admission are accepted at any time during the calendar year but should be initiated at least 30 days prior to the start of the quarter which the student plans to attend.

A student must be officially admitted to the University before registration for classes will be permitted. Students who have not completed the admission requirements by the first day of the quarter will not be permitted to register. A student, to be permitted to attend classes at Southern Illinois University, must have completed registration, which includes admission, advisement, sectioning, and payment of fees.

Social Security Number

Each student seeking admission to the University will need to present a social security number for identification purposes. Any local social security office can provide assistance in obtaining a number or replacing a lost card.

At Alton the social security office is at 1623 Washington Street; at East St. Louis the office is at 435 Missouri Avenue; at Edwardsville the Illinois State Employment Office, 111 West Vandalia, provides social security information.

Required Tests

Each student entering Southern Illinois University directly from high school is required to furnish to the University scores on the test battery administered by the American College Testing Program (A.C.T.). These tests are given at regional test centers throughout the United States in October, December, February, May, and August. Information and application blanks are normally available through the high school guidance director or principal, or may be obtained by writing directly to: American College Testing Program, Box 168, Iowa City, Iowa.

A student who finds it impossible to take the A.C.T. tests may have scores from the College Entrance Examination Board (C.E.E.B.) submitted. The specific scores, which must be submitted if the C.E.E.B. tests are submitted, are Scholastic Aptitude Test, English Composition Test, and Mathematics (Intermediate) Test. In order to have identical test data, a student who submits C.E.E.B. test data will be required to submit scores from the A.C.T. no later than one month after registration.

Transfer students are required to furnish A.C.T. scores to the Student Counseling and Testing Center. (A transcript of these scores is available by sending one dollar and a written request to the American College Testing Program in Iowa City.) If the scores are on file at the student's former school, a request should be made for their forwarding. Test scores are not normally sent with a person's transcript of grades and must be requested separately from the appropriate office at the former school. If the A.C.T. tests have not been taken, arrangements to do so should be made.

Advisement

The advisement system requires all new students to have initial advisement through the General Studies Advisement Office. An office is maintained at the Alton Center for the convenience of the student. Freshmen and sophomores will continue to be advised each quarter prior to registration. Following the student's declaring a major (between reaching 64 and 96 hours of credit), the student is assigned to an adviser in his concentration area. Each student is required to declare a concentration upon achieving 96 hours of credit. Probationary students are also required to receive advisement prior to registration.

Graduate students, both classified and unclassified, must have their schedule approved at the Graduate Office before registering.

Students with a declared major in the Education Division must receive advisement from the Division office prior to registering.

All students should arrange to have advisement early to be sure their schedules will be approved before their registration.

Required Physical Examinations

Each new student desiring to enroll at Southern Illinois University is required to have a physical examination completed prior to his initial registration for classes. A special medical form is provided which is to be completed by the student and his personal physician and returned to the University Health Service.

Registration

Students may register at Edwardsville for classes at any location (see Edwardsville Registration Calendar, p. iv). Students wishing classes at the Alton Center, or at the Center and at Edwardsville, may register at the Alton Center during the period listed on the Registration Calendar. All General Studies students are required to have approval of their schedule by the General Studies Advisement Office.

Each classified graduate student must have his schedule approved by his adviser and the Dean of the Graduate School before registering for classes at the Enrollment Center. Unclassified graduate students need only the approval of the Dean of the Graduate School. Special cards for this purpose are available at the Graduate Office, 2202 General Office Building.

During the registration process the student goes to the enrollment office where the assignment is made to specific sections of the courses he is to take.

New Students

Students entering the University for the first time are permitted to register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admissions.

Dates for new undergraduate students, freshmen and transfer, will be selective ones in which the students are asked to come to the campus on specific registration dates as determined by the University. Students should not expect to be advised and registered on the same date they are admitted. Appointments for registration will be mailed from the Registrar's Office.

New graduate students after advisement may register during the registration period as shown on the Registration Calendar on page iv. Arrangements should be cleared with the Graduate School to assure that the appropriate adviser will be available before coming to the campus.

Re-Entering Students

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to register during the periods outlined in the Registration Calendar. Readmission must be completed prior to registration.

Current Students, Edwardsville Campus

For admittance to registration students previously enrolled must present their Southern Illinois University ID cards. No one will be permitted to register without an ID card. Each student currently registered in the University will be continued in his present course of study unless a change of concentration is made. A change of concentration is initiated with the chief academic adviser. The change should be made at the time of advisement; the registrar's copy of the change form should accompany the student's registration. A change of concentration made after a registration has been processed will not be reflected in the student's record until the next registration.

Upperclass students who have declared a concentration and who are currently registered in the University may be self-advised for registration purposes. This does not apply to Business Division or Education Division students. Academic advisement is available and is very desirable. The student should prepare his desired program of classes at each registration period and process through the sectioning area of the enrollment office in accordance with the time of his appointment in order to best achieve the desired schedule of classes and time periods.

Current Students, Carbondale Campus

A student currently enrolled in and attending classes on the Carbondale Campus who desires to register on the Edwardsville Campus will initiate his registration at the sectioning area of the enrollment center in Edwardsville in accordance with the registration calendar except that he may register on the first day of the quarter. Each student will complete the intra-university transfer data form to secure information necessary for the Edwardsville data processing center preparation of registration materials. The student who registers on the first day of the quarter should present his most recent grade report to confirm scholastic eligibility to register.

For the purpose of advisement, the student may wish to have a copy of his transcript sent to the Edwardsville Campus prior to registration.

Payment of Fees

All fees are payable at the time of registration. Upon payment of fees, the fee statement and receipt card will be stamped by the Business Office and returned to the student as a fee receipt. The card should be carried at all times. It serves as official authorization to attend classes as scheduled and must be presented to obtain books and activity cards and to process program changes.

Students unable to pay fees at the time of registration may secure short-term loans from the Student Work and Financial Assistance Office. This must be done before registering.

Fees for a Regular Quarter

The fee schedule is as follows: *

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident	\$22.00	\$45.00	\$67.00
Tuition Fee—Out of State Resident	(69.00)	(137.00)	(206.00)
Student Welfare and Recreation			
Building Trust Fund Fee	5.00	10.00	15.00
Book Rental Fee	3.00	6.00	8.00
Student Activity Fee	3.50	7.00	10.50
University Center Fee	5.00	5.00	5.00
Athletic Fund Fee	3.00	6.50	10.00
<i>Total</i> —Illinois Resident	\$41.50	\$79.50	\$115.50
<i>Total</i> —Out of State Resident	(88.50)	(171.50)	(254.50)

* Fees are subject to change whenever conditions make changes necessary.

Graduate students do not rent their textbooks and do not pay the book rental fee. They purchase their books.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status. Prior to registration this student will go to the Student Work and Financial Assistance Office to secure certification.

Late Registration Fee

The first day of a quarter is considered the last day of the regular registration period. Registrations thereafter, including those for classes "to be arranged" are considered late registrations and are assessed a late registration fee of \$5.00.

Changing Fee Status

Students making program changes which result in their changing from one fee status to a higher fee status will be assessed additional tuition and fees. Students changing from a higher fee status to a lower fee status may apply for a refund provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University are eligible for a refund. This is usually during the first ten days. For dates refer to the Registration Calendar on page iv.

Academic Load

The normal class load is 16 quarter hours for undergraduate students and 12 quarter hours for graduate students. The maximum load for both is 18 hours. A student with a 4.25 average or above for the preceding quarter may be allowed by written permission of the chief academic adviser or by the dean of his division to take as many as 21 hours. In no case may a student carry or be credited with more than 21 hours in any quarter. A student on probation may not take more than 14 quarter hours.

A person should not register for more than 8 hours if he is employed full time.

The Selective Service System requires a minimum of 12 hours for an undergraduate and 8 hours for a graduate to qualify for a student deferment. There is a further requirement that he complete 48 hours each year.

The National Defense Education Act requires a minimum of 12 hours to qualify for a student loan.

For students receiving benefits under the "GI Bill" (P.L. 358) the following regulations apply:

	<i>Undergraduate</i>	<i>Graduate</i>
Full benefits	14 or more hrs.	12 or more hrs.
$\frac{3}{4}$ benefits	10-13 hrs.	9-11 hrs.
$\frac{1}{2}$ benefits	7-9 hrs.	6-8 hrs.

Prerequisites

Students are responsible for checking course prerequisites in the undergraduate and graduate catalogs and in this class schedule. Those who do not have specific prerequisites for a course may register for it only if they have had a comparable course or have written consent of the instructor.

Auditing of Courses

A student may register for courses in an "audit" status. He receives no letter grade and no credit for such courses. An auditor's registration card must be marked accordingly. He pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter.

Registering for and Dropping Courses

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program adjustment be approved permitting registration in that class. A student is officially registered only for those courses and sections appearing on his registration cards. Changes can be made only after fees are paid and must be made through an official program change at the Enrollment Center.

A student desiring to make a program change must secure approval of his adviser. He will then go to the Enrollment Center. (A student at Alton may initiate his request to drop a course by going to the General Office.) He is required to present his fee receipt program card and must complete the following procedure. (1) After having been cleared with the Enrollment Center, program changes for which a program change fee is assessed must be presented to the Business Office for payment. (2) The student immediately returns the program change to the Enrollment Center in the Registrar's Office for final processing. (3) A student has not completed his program change until he presents it to the Enrollment Center. **NO CHANGE IS OFFICIAL UNTIL THE PRECEDING PROCEDURE IS COMPLETED.**

A student who finds it necessary to make an adjustment to his program by adding or dropping a course may do so during normal office hours at the Edwardsville Enrollment Office. (No changes will be made on the first day of the quarter.) A program adjustment must be made to drop or add a course. A student may not drop a course merely by stopping attendance. Failure to officially drop a course may result in academic penalty.

Withdrawal from School

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the Registration Calendar in this bulletin for the specific dates concerning withdrawal and refunding of fees.

A student who registers and then finds that he cannot attend school must also officially withdraw from school. He may do this by asking the Student Affairs Office to initiate official withdrawal action for him. This must be done by the end of the first two weeks if he expects to get a refund.

Cancellation of Registration

A registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Director of Student Affairs.

Personal Data Changes

Changes in personal data should be reported promptly. Types of change and method of reporting are:

1. ADDRESS CHANGES. Should be reported immediately either at the time of registration or at the Registrar's Office.
2. NAME CHANGES. Should be made at the Registrar's Office. Verification is required.
3. MARITAL STATUS CHANGES. Should be made at the Registrar's Office.
4. LEGAL RESIDENCE CHANGES (whether an Illinois or out-of-state resident.) Must be requested by completion of the *Application to be Classified an Illinois Resident* form in the Registrar's Office. Before the change is made the student must have met the regulations governing residency status as established by the Board of Trustees.

Hospitalization

Health and hospitalization insurance is offered to all students. Cost of the insurance is \$9.00 per quarter for single and \$28.20 per quarter for family plan. This insurance is available at the time of registration.



2 / Schedule of Classes

Except for the Guaranteed Center Schedule, the University reserves the right to cancel, combine, divide, or limit enrollment in any class or classes; to change the date, time, or place of meeting; to make any other revisions in these course offerings which may become desirable or necessary; and to do so without notice and without incurring obligation.

Explanation of the Schedule

Courses are listed numerically within each subject-matter area. The entry for each course is arranged as follows:

First Line: The course's identification number is followed by the number of quarter hours of credit and the descriptive title. The prerequisites, if any, appear in brackets after the title or on the line immediately below the title.

Section-Number Lines: The first column lists the section numbers. Those sections offered at Edwardsville always begin with 0; those sections offered at Alton always begin with 2; those sections offered at East St. Louis always begin with 4. Following each section number is the time the class begins, between 8:00 A.M. and 4:20 P.M. for daytime classes. An ending time is listed only if the class period is longer than 50 minutes. The section number of each evening class has the letter E prefixed. A + indicates a section which is part of the Guaranteed Center Schedule and is not subject to cancellation. The days when the class meets, the place where it meets, and the instructor's last name complete the entry.

The course numbering system is as follows:

000-099 Courses not properly falling in the following categories

100-199 For freshmen

200-299 For sophomores

300-399 For juniors and seniors

400-499 For seniors and graduate students

500-600 For graduate students only

Students registering for courses listed as TBA (to be arranged) should consult the instructor indicated, or the faculty office if no instructor is listed, to determine time and place of meeting.

The following list of building abbreviations will help in the location of classrooms.

ANA	—Annex A—Alton
CB	—Communications Bldg.—Edwardsville
ESL	—East St. Louis Center
Gym	—Gymnasium—Alton
LB	—Lovejoy Memorial Library—Edwardsville
PB	—John Mason Peck General Classroom Building—Edwardsville

SCI —Science Building—Alton
SL —Science Laboratory Building—Edwardsville
UC —University Center—Edwardsville
Wagner —Wagner Building—Edwardsville
Pract Ctr—Practicum Center—Edwardsville

Final Examination Schedule, Winter Quarter, 1970

March 16-21, 1970

	Mon. Mar. 16	Tues. Mar. 17	Wed. Mar. 18	Thurs. Mar. 19	Fri. Mar. 20	Sat. Mar. 21
8:00 to 9:40	All classes beginning at 8:30, except Tu and/or Th only	Classes beginning at 8:30 Tu and/or Th only	Classes beginning at 9:30 Tu and/or Th only	All classes beginning at 9:30, except Tu and/or Th only	Multiple Section Block (GSA 201) See Announcement	At regular class sessions
10:00 to 11:40	Classes beginning at 10:30 Tu and/or Th only	All classes beginning at 11:30, except Tu and/or Th only	All classes beginning at 10:30, except Tu and/or Th only	Classes beginning at 11:30 Tu and/or Th only	Make-up	
12:20 to 2:00	All classes beginning at 1:30, except Tu and/or Th only	All classes beginning at 12:30, except Tu and/or Th only	Multiple-Section Block (Speech) See Announcement	Classes beginning at 1:30 Tu and/or Th only	Classes beginning at 12:30 Tu and/or Th only	
2:20 to 4:00	Classes beginning at 2:30 Tu and/or Th only	Classes beginning at 3:30 Tu and/or Th only	All classes beginning at 3:30, except Tu and/or Th only	All classes beginning at 2:30, except Tu and/or Th only	Make-up	
Evening Classes	At regular sessions					



101a-5	Introduction to Physical Science [Math 101 or satisfactory score on placement test] Student enrolls in one lecture and one lab.	Lect A	9:30	MTWThF	SL 1105
		Lect B	1:30	MTWThF	SL 1105
		Lect eC	6:30-7:50	MWF	SL 1105
		001	10:30-12:20	M	SL 1217
		002	12:20-2:20	M	SL 1217
		003	2:30-4:20	M	SL 1217
		004	8:30-10:20	T	SL 1217
		005	10:30-12:20	T	SL 1217
		006	12:30-2:20	T	SL 1217
		007	2:20-4:20	T	SL 1217
		008	8:30-10:20	W	SL 1217
		009	10:30-12:20	W	SL 1217
		010	12:30-2:20	W	SL 1217
		011	2:30-4:20	W	SL 1217
		012	8:30-10:20	Th	SL 1217
		013	10:30-12:20	Th	SL 1217
		014	12:30-2:20	Th	SL 1217
		015	2:30-4:20	Th	SL 1217
		016	8:30-10:20	F	SL 1217
		017	10:30-12:20	F	SL 1217
		018	12:30-2:20	F	SL 1217
		019	2:30-4:20	F	SL 1217
		e020	8:00-10:00	M	SL 1217
		e021	8:00-10:00	W	SL 1217
101c-3	Introduction to Physical Science [101a]	001	8:30	T Th	SL 3114
			8:30-10:20	M	SL 1209
		002	8:30	T Th	SL 3114
			10:30-12:20	M	SL 1209
		003	8:30	T Th	SL 3114
			12:30-2:20	M	SL 1209
		004	8:30	T Th	SL 3114
			8:30-10:20	W	SL 1209
		005	8:30	T Th	SL 3114
			10:30-12:20	W	SL 1209
		006	8:30	T Th	SL 3114
			12:30-2:20	W	SL 1209
		007	8:30	T Th	SL 3114
			8:30-10:20	F	SL 1209

101c-3	Introduction to Physical Science	008	8:30 10:30-12:20	T Th F	SL 3114 SL 1209	
		009	8:30 12:30-2:20	T Th F	SL 3114 SL 1209	
110a-4	The Earth and Its Environment	001	9:30	MTWF	PB 1410	Marlow
		002	8:30-10:20	F	SL 1215	
		003	1:30	MTWF	SL 3114	Clements
		004	1:30-3:20	F	SL 1215	
		005	1:30	MTWTh	SL 3114	Clements
		006	12:30-2:20	Th	SL 1215	
		007	2:30	MTWTh	PB 1410	Thompson
		008	2:30-4:20	Th	SL 1215	
		009	10:30	MTW	SL 1215	Marlow
		010	10:30-12:20	Th	SL 1215	
		011	6:00-8:20	T Th	SL 1215	
110b-4	The Earth and Its Environment	001	9:30	TWThF	SL 3114	Miller
		002	8:30-10:20	T	SL 1215	
		003	9:30	MTWThF	SL 3114	Miller
		004	8:30-10:20	M	SL 1215	
		005	12:30	TWThF	SL 3114	Yarbrough
		006	11:30-1:20	M	SL 1215	
		007	12:30	TWThF	SL 3114	Yarbrough
		008	11:30-1:20	T	SL 1215	
		009	6:00-8:20	M W	SL 1215	Gore
		+201	9:30-10:20 8:30-10:20	MTW F	ANA 110 ANA 110	Olson
201a-4	Man's Biological Inheritance [High school chemistry] Student enrolls in lecture and one lab. Lectures will be given by CC-TV. Room assignment for the lecture will be made by the Enrollment Center at the time of registration.	Lect A	3:30	MWF	TBA	Thomerson
		011	8:30-10:20	T	SL 1210	
		012	10:30-12:20	T	SL 1210	
		013	12:30-2:20	T	SL 1210	
		014	2:30-4:20	T	SL 1210	
		021	8:30-10:20	W	SL 1210	
		022	10:30-12:20	W	SL 1210	
		023	12:30-2:20	W	SL 1210	
		031	8:30-10:20	Th	SL 1210	
		032	10:30-12:20	Th	SL 1210	
		033	12:30-2:20	Th	SL 1210	
		034	2:30-4:20	Th	SL 1210	

201b-4	Man's Biological Inheritance [201a] Student enrolls in one lecture and one lab. Lectures will be given by CC-TV. Room assignment for lectures A,B, and C will be made by the Enrollment Center at the time of registration.	Lect A	8:30	MWF	TBA	Thomerson
		Lect B	12:30	MWF	TBA	Thomerson
		Lect eC	6:30-7:20	T	TBA	Thomerson
			6:30-8:15	Th	TBA	
		001	8:30-10:20	M	SL 2211	
		002	10:30-12:20	M	SL 2211	
		003	12:30-2:20	M	SL 2211	
		004	2:30-4:20	M	SL 2211	
		e005	4:30-6:20	M	SL 2211	
		006	8:30-10:20	M	SL 1210	
		007	10:30-12:20	M	SL 1210	
		008	12:30-2:20	M	SL 1210	
		009	2:30-4:20	M	SL 1210	
		011	8:30-10:20	T	SL 2211	
		012	10:30-12:20	T	SL 2211	
		013	12:30-2:20	T	SL 2211	
		014	2:30-4:20	T	SL 2211	
		e015	4:30-6:20	T	SL 2211	
		021	8:30-10:20	W	SL 2211	
		022	10:30-12:20	W	SL 2211	
		023	12:30-2:20	W	SL 2211	
		024	2:30-4:20	W	SL 2211	
		031	8:30-10:20	Th	SL 2211	
		032	10:30-12:20	Th	SL 2211	
		033	12:30-2:20	Th	SL 2211	
		034	2:30-4:20	Th	SL 2211	
		e035	4:30-6:20	Th	SL 2211	
		041	8:30-10:20	F	SL 2211	
		042	10:30-12:20	F	SL 2211	
		043	12:30-2:20	F	SL 2211	
		044	2:30-4:20	F	SL 2211	
		e062	6:30-8:20	W	SL 2211	
		e063	7:30-9:20	T	SL 2211	
312-3	Conservation of Natural Resources	001	11:30	MWF	PB 0306	Miller
		002	11:30	T	PB 0306	Marlow
			11:30-1:20	Th	PB 0306	

312-3	Conservation of Natural Resources	003 004 005 e006	10:30 11:30 10:30-12:20 11:30 6:30-7:45	MWF T Th MWF T Th	PB 1315 PB 1410 PB 1410 PB 1410 PB 1410	Yarbrough Roth Bridwell Wallace
330-3	Weather	001 e002	8:30 6:30-8:20	MTWTh T Th	PB 0306 PB 0306	Bridwell Scotfield
331-3	Climate	001 002 003 004 005 e006	9:30 10:30 12:30 1:30 2:30 6:30-8:20	MTWTh MTWTh MTWF MTWTh MTWTh M W	PB 0306 PB 0306 PB 0306 PB 0306 PB 0306 PB 0306	Scotfield Kazeck Scotfield Collier Bridwell Thompson
350-3	Atomic Energy	e001 002	8:30-9:45 12:30	M W MWF	SL 1105 PB 1311	
352-3	Radiation and Life	e001	8:30-9:45	T Th	SL 2224	
356-3	Astronomy	001 002 003	9:30 2:30-3:45 1:30	MWF T Th MWF	PB 1315 SL 1105 PB 1316	
363a-3	Philosophy of Science (Same as GSC 363a) [Completion second-level GSA]	001 002 e003	10:30 12:30 8:30-9:45	MTTh MTTh T Th	PB 0303 PB 3404 PB 0309	Solon Solon
363b-3	Philosophy of Science (Same as GSC 363b) [Completion second-level GSA]	001	1:30	MWF	PB 2412	Lawrence
MAN'S SOCIAL INHERITANCE AND SOCIAL RESPONSIBILITIES (GSB)						
101b-4	Survey of Western Tradition	001 002 003 004 e005	9:30 11:30 1:30 2:30 6:30-8:20	MTWTh MTWF MTWTh MTWTh T Th	PB 1306 PB 1306 PB 1306 PB 1306 PB 0304	Astour Branz Branz
101c-4	Survey of Western Tradition	001	8:30 8:30	MWF T	PB 1402 PB 0307	Barnhart

002	8:30	MWF	Barnhart
	8:30	Th	PB 1402
003	8:30	MWF	Barnhart
	8:30	T	PB 0307
004	8:30	MWF	Barnhart
	8:30	Th	PB 1402
005	8:30	MWF	Barnhart
	8:30	T	PB 0412
006	8:30	MWF	Barnhart
	8:30	Th	PB 1402
007	8:30	MWF	Barnhart
	8:30	T	PB 0411
008	8:30	MWF	Barnhart
	8:30	Th	PB 1402
009	9:30	MWF	Barnhart
	9:30	T	PB 1307
010	9:30	MWF	Barnhart
	9:30	Th	PB 1402
011	9:30	MWF	Barnhart
	9:30	T	PB 1412
012	9:30	MWF	Santoni
	9:30	Th	PB 1402
013	9:30	MWF	Santoni
	9:30	T	PB 0303
014	9:30	MWF	Santoni
	9:30	Th	PB 1402
015	9:30	MWF	Santoni
	9:30	T	PB 1410
016	9:30	MWF	Santoni
	9:30	Th	PB 1402
017	1:30	MWF	Santoni
	1:30	T	CB 0186
018	1:30	MWF	Santoni
	1:30	Th	PB 1402
019	1:30	MWF	Santoni
	1:30	T	PB 3316
020	1:30	MWF	Santoni
	1:30	Th	PB 2412
021	1:30	MWF	Santoni
	1:30	T	PB 1402
022	1:30	MWF	Santoni
	1:30	Th	SL 1221
			PB 1402
			PB 3316
			PB 1402
			PB 0309
			PB 1402
			PB 0309
			PB 1402
			PB 0406
			PB 1402
			PB 1410
			PB 1402
			PB 3404
			PB 1402
			PB 3404

101c-4	Survey of Western Tradition	023	1:30	MWF	PB 1402	Weingartner
			1:30	T	PB 1315	
		024	1:30	MWF	PB 1402	Weingartner
			1:30	Th	PB 2412	
		025	2:30	MWF	PB 1402	Kimball
			2:30	T	PB 1412	
		026	2:30	MWF	PB 1402	Kimball
			2:30	Th	PB 1412	
		027	2:30	MWF	PB 1402	Kimball
			2:30	T	PB 2306	
		028	2:30	MWF	PB 1402	Kimball
			2:30	Th	PB 2306	
		029	2:30	MWF	PB 1402	Kimball
			2:30	T	PB 1402	
		030	2:30	MWF	PB 1402	Kimball
			2:30	Th	PB 3302	
		031	2:30	MWF	PB 1402	Kimball
			2:30	T	PB 3305	
		032	2:30	MWF	PB 1402	Kimball
			2:30	Th	SL 1220	
		e033	6:30-8:20	M W	LB 0042	Wurtz
		e034	6:30-8:20	T Th	LB 0042	Weingartner
		+201	9:30	MTWTh	ANA 108	Wurtz
		+e202	6:30-8:20	M W	ANA 108	Barnhart
103a-4	Sociology-Economics	001	8:30-10:20	T Th	PB 0312	Lauer
		002	9:30	MTWTh	PB 2403	Biggs
		003	10:30	MTWTh	PB 1312	Reynolds
		004	11:30	TWThF	PB 1315	Grubb
		005	12:30-2:20	T Th	PB 1316	Lauer
		006	1:30	MTWTh	PB 1312	
		007	2:30	MTWTh	PB 1315	Grubb
		008	3:30	TWThF	PB 3305	
		e009	4:30-6:20	W F	PB 0304	Henslin
		e010	6:30-8:20	T Th	PB 1315	
		e011	7:30-9:20	M W	PB 1312	
		e201	6:30-8:20	M W	ANA 101	
103b-4	Sociology-Economics	001	10:30-12:20	T Th	SL 3114	
		002	12:30	MTWTh	PR 1402	

201a-4	The Individual and His Cultural Environment	e003 6:30-8:20	T Th	PB 1316	
		+201 8:30	MTWTh	ANA 108	
		001 9:30	MTWTh	PB 1316	Voget
		002 10:30	MTWTh	PB 1316	Coppinger
		003 11:30	MTWTh	PB 1316	Maloney
		004 12:30	MTWTh	PB 1410	Denny
		005 3:30-5:20	M W	PB 1410	Hayes
		+e201 6:30-8:20	T Th	ANA 101	Coppinger
201c-4	The Individual and His Cultural Environment	001 8:30-10:20	T Th	PB 1402	
		002 10:30-12:20	T Th	SL 1105	
		003 1:30	MWThF	PB 1315	
		004 2:30-4:20	M W	SL 1105	
		e005 6:30-8:20	T Th	SL 3114	
		+201 12:30-2:20	T Th	ANA 108	
203a-4	American Politics in the World Environment	001 8:30	MTWTh	PB 0403	Stahnke
		002 9:30	MTWTh	LB 0042	Jachim
		003 10:30	MTWTh	PB 0304	McCabe
		004 11:30	MTWTh	PB 0304	Wides
		005 12:30	MTWTh	LB 0042	Tubbesing
		006 1:30	MTWTh	PB 0304	Mace
		+e201 8:30-10:20	T Th	ANA 101	McHargue
203b-4	American Politics in the World Environment	001 10:30	MTWTh	PB 1410	Lampe
		002 1:30	MTWTh	PB 1410	Lampe
		e003 6:30-8:20	M W	PB 1410	Clements
		+201 10:30	MTThF	ANA 110	
300a-3	History of the United States	001 8:05-9:20	T Th	PB 1306	Oldani
		002 8:30	MWF	PB 1306	Wilton
		003 8:30	MWF	PB 1307	Grant
		004 2:30	MWF	PB 1307	Millett
		005 2:30	MWF	PB 1311	Barnhart
		006 3:30	MWF	PB 1306	Oldani
		e007 6:30-7:45	M W	PB 1307	Farrar
		e008 6:30-7:45	T Th	PB 1307	Branz

300b-3	History of the United States	001 9:30	MWF	PB 1307	Riddleberger
		002 11:30	MWF	PB 1307	Nordhauser
		003 1:30	MWF	PB 1307	Nordhauser
		004 2:30	MWF	PB 1414	Sand
		005 3:30-4:45	T Th	PB 1306	McCurry
		e006 6:30-7:45	T Th	PB 1306	McCurry
		e007 8:30-9:45	M W	PB 1307	Sand
300c-3	History of the United States	001 1:30	MWF	PB 1414	Sand
		002 2:30	MWF	PB 2403	Riddleberger
		e003 6:30-7:45	M W	PB 1306	Weiss
312-3	Comparative Economic Systems	001 12:30-1:50	T Th	PB 2405	
318a-3	American State and Local Government	001 9:30	TWTh	PB 0403	McHargue
331-3	The American Education System	e001 5:30-8:20	T	PB 0303	Curry
		002 11:30	MWF	PB 1311	Allsup
		003 9:30	MWF	PB 1311	Lucas
		004 10:30	MWF	PB 1311	Lucas
		005 8:30-9:45	T Th	PB 1311	Richards
		006 10:05-11:20	T Th	PB 1311	Hildebrand
		007 11:30-12:45	T Th	PB 1311	Richards
		008 1:30-2:45	T Th	PB 0314	Hildebrand
		e009 5:30-8:20	W	CB 0186	
		010 9:30-12:20	S	PB 1311	Taylor
		e011 7:30-10:20	M	PB 2409	
		e012 7:30-10:20	Th	PB 1312	
341-3	Marriage	001 11:30	TWTh	PB 1312	Biggs
		002 1:30-2:45	T Th	LB 0042	Taylor

MAN'S INSIGHTS AND APPRECIATIONS (GSC)

151-3	Introduction to Poetry [GSD 101b]	001 8:05-9:20	T Th	PB 3422	
		002 8:30	MWF	PB 3422	
		003 9:30	MWF	PB 3422	
		004 10:30	MWF	PB 3422	
		005 11:05-12:20	T Th	PB 3422	
		006 11:30	MWF	PB 3422	
		007 12:30-1:45	T Th	PB 3422	
		008 1:45-3:00	MWF	PB 3422	

155-5	Introduction to Art	009 1:30 010 1:30 011 2:30 012 2:30 013 3:30 014 3:30 e015 8:30-9:45 +e201 6:30-7:45	MWF MWF MWF MWF MWF MWF T Th T Th	PB 3422 PB 3102 PB 3422 PB 1308 PB 3422 PB 1309 PB 3422 ANA 110	
		001 10:30 002 12:30 003 3:30 +201 1:30-3:00	MTWThF MTWThF MTWThF MWF	LB 0044 LB 0044 LB 0044 ANA 108	Jacobson Smith
156-5	Introduction to Music History-Literature	001 10:30 002 11:30	MTWThF MTWThF	PB 1402 PB 1402	Kresteff Ferguson, Turner
157-5	The Dramatic Media: Theater, Cinema, and Television	001 11:30 002 9:30	MTWThF MTWThF	LB 0044 LB 0044	Kluth Birdman
252-4	Logic [Completion first-level GSC]	001 8:05-9:20 8:30 002 8:05-9:20 8:30 003 8:05-9:20 8:30 004 8:05-9:20 9:30 005 8:05-9:20 9:30 006 8:05-9:20 9:30 007 10:30 11:30 008 10:30 11:30 009 10:30 9:30	T Th W T Th W T Th W T Th W T Th W T Th W MWF W MWF W MWF F	SL 1105 PB 0309 SL 1105 SL 0226 SL 1105 PB 0413 SL 1105 PB 0406 SL 1105 PB 0412 SL 1105 PB 0413 SL 3114 PB 2409 SL 3114 PB 2411 SL 3114 PB 0403	Broyer Broyer Broyer Broyer Broyer Broyer Paxson Paxson Paxson

252-4	Logic	010	10:30	MWF	SL 3114	Paxson
			9:30	F	PB 0406	
		011	10:30	MWF	SL 3114	Paxson
			11:30	W	SL 2224	
		012	10:30	MWF	SL 3114	Paxson
			11:30	Th	PB 0307	
		013	12:30	M	SL 3114	Lawrence
			12:30	T Th	SL 1105	
			12:30	F	PB 0408	
		014	12:30	M	SL 3114	Lawrence
			12:30	T Th	SL 1105	
			12:30	F	PB 3404	
		015	12:30	M	SL 3114	Lawrence
			12:30	T Th	SL 1105	
			12:30	F	PB 1410	
		016	12:30	M	SL 3114	Lawrence
			12:30	T Th	SL 1105	
		017	1:30	F	PB 3302	
			12:30	M	SL 3114	Lawrence
			12:30	T Th	SL 1105	
253-4	Literary Masterpieces of Antiquity [151]	018	1:30	F	PB 0306	Lawrence
			12:30	M	SL 3114	
			12:30	T Th	SL 1105	
			1:30	F	PB 0304	
		019	2:30	MTThF	PB 1316	
		e020	6:30-8:20	M W	PB 2306	Hudlin
		e021	6:30-8:20	T Th	PB 2306	
		001	8:30	MTThF	PB 1414	
		002	8:30	MTThF	PB 2403	
		003	9:30	MTThF	PB 1414	
		004	10:30	MTThF	PB 1414	
		005	11:30	MTThF	PB 0314	
		006	12:30	TWThF	PB 0403	
		007	1:30	TWThF	PB 0403	
		008	2:30	MTThF	PB 0412	
		009	3:30	MTThF	PB 0306	
		e010	6:30-8:20	M W	PB 2411	
		e201	6:30-8:20	M W	ANA 100	

254-4	Philosophical Masterpieces [Completion first-level GSC]	001 8:30 002 9:30 003 10:30 004 10:30 005 11:30 006 12:30 007 12:30 008 2:30 e009 8:30-10:20	MTThF MTThF MTThF MTThF MTThF MTThF MTThF MTThF M W	PB 0309 PB 0412 PB 0309 PB 0412 PB 0309 PB 0309 PB 2403 PB 0302 PB 0314	Solon Marti Glossop Murdoch Marti Murdoch Hudlin Hudlin
313-3	Folklore [Completion second-level GSC]	001 2:30	MWF	PB 3102	Oldani
315-3	Studies in Biography [Completion second-level GSC]	001 12:30	TWTh	PB 0412	Steinman
333-3	The Bible as Literature [Completion second-level GSC]	001 2:30-3:45	T Th	PB 0303	Murdoch
335-3	Studies in Short Fiction [Completion second-level GSC]	001 2:30-3:45 e002 6:30-7:45	T Th T Th	PB 3102 PB 3102	
336-3	Studies in the Novel [Completion second-level GSC]	001 12:30	MWF	PB 3102	
337-3	English Language Heritage [Completion second-level GSC]	001 2:30-3:45 2:30-3:45	T Th	PB 2411 PB 1311	Collins
339-3	Classical Mythology and Its Influence [Completion second-level GSC]	001 1:30	MWF	PB 0309	Drake
341-3	Modern Art B	001 8:30	MWF	LB 0042	Richardson
345c-3	Masterpieces of World Literature [Completion second-level GSC]	001 8:30	MWF	PB 0412	Guenther
354b-3	History of the Theater	001 9:30	MWF	PB 2306	Vilhauer
354c-3	History of the Theater	001 1:30	MWF	PB 2306	Archer
357-3	History of Music Literature	001 1:30	MWF	PB 3404	Kresteff
363a-3	Philosophy of Science (Same as GSA 363a) [Completion second-level GSC]	001 10:30 002 12:30 e003 8:30-9:45	MTTh MTTh T Th	PB 0303 PB 3404 PB 0309	Solon Solon

363b-3	Philosophy of Science (Same as GSA 363b) [Completion second-level GSC]	001	1:30	MWF	PB 2412	Lawrence
370b-3	American Art	001	2:30	MWF	LB 0044	Hilberry
375-3	Ethics [Completion second-level GSC]	001	12:30	TThF	PB 3316	Seligman
		002	1:30	TThF	PB 3316	Seligman
390-3	Existentialism [Completion second-level GSC]	001	9:30	MTTh	PB 0406	Keene
		002	10:30	MWF	PB 3404	Helfrich
ORGANIZATION AND COMMUNICATION OF IDEAS (GSD)						
100-1	Study Skills	001	10:30	W F	PB 0303	
		002	12:30	T Th	PB 1312	
		003	8:30	T Th	PB 2412	
		004	11:30	W F	PB 0312	
101a-3	English Composition	001	8:05-9:20	T Th	PB 3409	
		002	8:05-9:20	T Th	PB 1309	
		003	8:30	MWF	PB 3409	
		004	8:30	MWF	PB 1309	
		005	9:30-10:45	T Th	PB 3409	
		006	9:30	MWF	PB 3409	
		007	10:30	MWF	PB 3409	
		008	11:30	MWF	SL 1221	
		009	11:05-12:20	T Th	PB 3409	
		010	11:30	MWF	PB 3409	
		011	12:30-1:45	T Th	PB 3409	
		012	12:30	MWF	PB 3409	
		013	1:30	MWF	PB 3409	
		014	2:05-3:20	T Th	PB 3409	
		015	2:30	MWF	PB 3409	
		016	3:30	MWF	PB 3409	
		e017	6:30-7:45	T Th	PB 3409	
		+e201	8:30-9:45	T Th	ANA 100	
101b-3	English Composition [101a]	001	8:05-9:20	T Th	PB 2415	
		002	8:05-9:20	T Th	PB 2414	
		003	8:05-9:20	T Th	PB 2413	
		004	8:30	MWF	PB 2415	

005	8:30	MWF	PB 2414
006	8:30	MWF	PB 2413
007	8:30	MWF	PB 2406
008	8:30	MWF	PB 3102
009	9:30-10:45	T Th	PB 3422
010	9:30-10:45	T Th	PB 2415
011	9:30-10:45	T Th	PB 2414
012	9:30	MWF	PB 2415
013	9:30	MWF	PB 2414
014	9:30	MWF	PB 2413
015	9:30	MWF	PB 2406
016	9:30	MWF	PB 1309
017	10:30	MWF	PB 2415
018	10:30	MWF	PB 2414
019	10:30	MWF	PB 2413
020	10:30	MWF	PB 2406
021	9:30-10:45	T Th	PB 2413
022	11:05-12:20	T Th	PB 2415
023	11:05-12:20	T Th	PB 2414
024	11:05-12:20	T Th	PB 2413
025	11:30	MWF	PB 2415
026	11:30	MWF	PB 2414
027	11:30	MWF	PB 2413
028	11:30	MWF	PB 2406
029	11:30	MWF	PB 1309
030	12:30-1:45	T Th	PB 2415
031	12:30-1:45	T Th	PB 2414
032	12:30-1:45	T Th	PB 2413
033	12:30	MWF	PB 2415
034	12:30	MWF	PB 2414
035	12:30	MWF	PB 2413
036	12:30	MWF	PB 2406
037	12:30	MWF	PB 1302
038	1:30	MWF	PB 2415
039	1:30	MWF	PB 2414
040	1:30	MWF	PB 2413
041	1:30	MWF	PB 2406
042	12:30	MWF	PB 2412
043	2:05-3:20	T Th	PB 3422
044	2:05-3:20	T Th	PB 2415
045	2:05-3:20	T Th	PB 2414
046	2:30	MWF	PB 2415

101b-3 English Composition

047	2:30	MWF	PB 2414
048	2:30	MWF	PB 2413
049	2:30	MWF	PB 2406
050	2:30	MWF	PB 2410
051	3:30	MWF	PB 2415
052	3:30	MWF	PB 2413
053	3:30	MWF	PB 2406
054	3:30	MWF	PB 1302
055	3:30	MWF	PB 0303
e056	4:30-5:45	M W	PB 3422
e057	6:30-7:45	T Th	PB 3422
e058	8:30-9:45	T Th	PB 3409
+201	8:30	MWF	ANA 100
+202	9:30	MWF	ANA 100
+203	10:30	MWF	ANA 100
+e204	6:30-7:45	M W	ANA 110
+e205	6:30-7:45	T Th	ANA 100
+e206	8:30-9:45	M W	ANA 110
+e207	8:30-9:45	T Th	ANA 110

103-3 Oral Communication of Ideas

001	8:30-9:45	T Th	PB 2406	Hawkins
002	8:30	M W	LB 0051	Robinson
	8:30	F	PB 2304	
003	8:30	T Th	LB 0051	Robinson
	8:30	F	PB 2304	
004	9:30	M W	LB 0051	Robinson
	9:30	F	PB 2304	
005	9:30	T Th	LB 0051	Robinson
	9:30	F	PB 2304	
006	9:30	M	PB 0408	Tirre
	9:30	W	PB 0302	
	9:30	F	PB 0314	
007	9:30	T Th	PB 1309	Tirre
	9:30	F	PB 0314	
008	10:30	M W	LB 0051	Tirre
	10:30	F	PB 2304	
009	10:30	T Th	LB 0051	Tirre
	10:30	F	PB 2304	
010	10:30	M	PB 1302	Stoppe
	10:30	W	PB 0302	
	10:30	F	PB 0314	

011	10:30	T Th	PB 1309	Stoppe
	10:30	F	PB 0314	
012	11:30	M W	LB 0051	Smith
	11:30	F	PB 2304	
013	11:30	T Th	LB 0051	
	11:30	F	PB 2304	
014	11:30	M W	CB 0186	Glenn
	11:30	F	PB 0304	
015	11:30	T Th	CB 0194	Glenn
	11:30	F	PB 0304	
016	12:30	M W	LB 0051	Stein
	12:30	F	PB 2304	
017	12:30	T Th	LB 0051	Stein
	12:30	F	PB 2304	
018	12:30	M	PB 1309	Smith
	12:30	W	PB 0302	
	12:30	F	PB 1307	
019	12:30	T Th	PB 0307	Smith
	12:30	F	PB 1307	
020	1:30	M W	LB 0051	Glenn
	1:30	F	PB 2304	
021	1:30	T Th	LB 0051	Glenn
	1:30	F	PB 2304	
022	1:30	M W	CB 0186	Stein
	1:30	F	PB 1306	
023	1:30	T Th	PB 1309	Stein
	1:30	F	PB 1306	
024	1:30	M W F	PB 1302	Smith
025	2:30	M W F	LB 0051	Robinson
026	2:30	M W F	SL 1221	Glenn
027	2:30	M W F	PB 1302	Tirre
028	2:30	M W F	PB 1309	Stein
029	2:30-3:45	T Th	LB 0051	Birdman
030	3:30-4:45	M W	LB 0051	Maag
031	3:30-4:45	T Th	PB 0408	Carey
032	10:30	M W F	PB 1309	Kluth
e033	6:30-7:45	M W	LB 0051	Salden
e034	8:30-9:45	M W	LB 0051	Salden
+201	11:30	M W F	ANA 111	Hawkins
+202	12:30	M W F	ANA 111	Hawkins

112a-4	Introduction to Mathematics [One year high school algebra, satisfactory ACT score]	001	2:30	MWF	SL 3114	Phillips
			12:30	T Th	SL 0226	
		002	2:30	MWF	SL 3114	Phillips
			1:30	T	PB 0303	
			1:30	Th	SL 2224	
		003	2:30	MWF	SL 3114	Phillips
			2:30	T Th	SL 0226	
		004	2:30	MWF	SL 3114	Phillips
			11:30	T Th	SL 1221	
112b-5	Introduction to Mathematics [112a]	001	11:30	MWF	SL 1105	Verderber
			12:30	T Th	SL 1225	
		002	11:30	MWF	SL 1105	Verderber
			11:30	T Th	PB 1307	
		003	11:30	MWF	SL 1105	Verderber
			12:30	T Th	SL 1224	
		004	11:30	MWF	SL 1105	Verderber
			10:30	T Th	PB 0307	
		005	11:30	MWF	SL 1105	Verderber
			11:30	T	PB 0303	

114c-4	Trigonometry [114a]	+201 10:30 +e202 6:00-8:20	MTWThF M W	SCI 002 SCI 002	
		001 12:30 002 1:30 003 2:30 004 12:30 005 10:30 006 9:30 007 11:30	MTThF MTThF MTThF MTThF MTThF MTThF MTThF	PB 0302 PB 0302 SL 1225 PB 0303 PB 0302 PB 0302 PB 0302	Beradino
114d-4	Statistics [114a]	001 10:30-12:20 e002 8:30-10:20 003 12:30 004 2:30 005 8:30	T Th T Th MTWF MTWTh MTWF	PB 0312 PB 2405 SL 2224 SL 1224 SL 1224	Rutledge Hicks Sturley
		+201 11:30 e202 6:30-8:20	MTThF M W	SCI 002 SCI 003	
123a-3	Elementary French [No previous training, concurrent enrollment in Fr 123a]	001 10:30 10:30	M W T	PB 1412 PB 1315	
123b-3	Elementary French [123a, concurrent enrollment in Fr 123b]	001 9:30 002 11:30 003 1:30 e004 6:30-7:45	MTTh MTTh MTTh T Th	PB 2409 PB 2409 PB 2409 PB 2409	
126b-3	Elementary German [126a, concurrent enrollment in Ger 126b]	001 10:30 002 11:30 003 1:30 e004 5:30-6:45	MTTh MTTh MTTh M W	PB 2409 PB 2410 PB 2410 PB 2409	
136b-3	Elementary Russian [136a, concurrent enrollment in Russ 136b]	001 10:30	MTTh	PB 2410	Zaytzeff
140b-3	Elementary Spanish [140a, concurrent enrollment in Span 140b]	001 10:30 002 12:30 003 2:30 e004 6:30-7:45	MTTh MTTh MTTh M W	PB 1313 PB 2409 PB 2409 PB 2409	
144b-3	Elementary Italian [144a, concurrent enrollment in Ital 144b]	001 11:30 002 10:30	MTTh TWTh	PB 2411 PB 2411	Romani Romani

HEALTH AND PHYSICAL DEVELOPMENT (GSE)

102-1	Physical Fitness	001 8:30 002 9:30 003 9:30 004 11:30	T Th M W M W M W	PB W Patio PB W Patio PB W Patio PB W Patio	Kristoff Whitted Kristoff Kristoff
104c-1	Basketball (Men)	201 3:30	T Th	GYM 102	Whitted
104u-1	Wrestling	001 10:30-12:20	F	H&R Plant	Kristoff
112-1	Basic Body Movement	001 8:30	M W	LB 0033	Martin
114c-1	Basketball (Women)	201 12:30	T Th	GYM 102	Bigham
115a-1	Restricted Physical Education [Consent of instructor]	001 9:30	M W	LB 0033	Martin
117a-1	Square Dance	001 10:30 002 10:30	M W T Th	LB 0033 LB 0033	Martin Carpenter
117b-1	Folk Dance	001 11:30 002 11:30 e003 4:30	M W T Th T Th	LB 0033 LB 0033 LB 0033	Martin Carpenter Martin
117c-1	Social Dance	001 12:30 002 12:30 003 3:30	M W T Th M W	LB 0033 LB 0033 LB 0033	Martin Carpenter Martin
117d-1	Beginning Contemporary Dance	e001 4:30	M W	LB 0033	Martin
117e-1	Intermediate Contemporary Dance	e001 4:30	M W	LB 0033	Martin
117f-1	Basic Rhythms	001 1:30 002 2:30	T Th T Th	LB 0033 LB 0033	Carpenter Carpenter
118b-1	Badminton	201 1:30	T Th	GYM 102	Whitted
118d-1	Bowling	001 8:30 002 9:30 003 10:30 004 10:30	M W M W M W T Th	UC 0017 UC 0017 UC 0017 UC 0017	Bigham Gallatin Bigham Bigham

118f-1	Billiards Meets first six weeks only.	005 006 007 008	11:30 12:30 1:30 2:30	T Th M W T Th T Th	UC 0017 UC 0017 UC 0017 UC 0017	Gallatin Gallatin Lee
118i-1	Volleyball	+201	2:30	T Th	GYM 102	Whitted
118m-1	Fencing	001	3:30	T Th	LB 0033	Martin
118r-1	Stunts and Tumbling	201	3:30	M W	GYM 102	Luedke
118s-1	Gymnastics Students attend lecture and appropriate lab.	e201 lab-m lab-w	4:30 4:30 2:30	M W W	GYM 102 GYM 102 GYM 102	Luedke
201-3	Healthful Living	001 002 003 004 005 006	9:30 10:30 8:30 12:30 1:30 9:30	MWF MWF MWF MWF MWF T Th	PB 0312 LB 0042 LB 0044 PB 2306 LB 0042 PB 1312	Bigham Whitted Buddell Buddell Kristoff Kristoff
		007	9:30 8:30	F T Th	PB 2405 PB 1316	Lee
		e008	8:30 5:30-8:20	F W	PB 2405 PB 1402	Buddell
		+e201	8:30-9:45	T Th	ANA 108	Whitted
AEROSPACE STUDIES (A S)						
300-0	Corps Training [By permit only, concurrent enrollment in 302]	001	8:30	T	PB 2410	Blahous
302-3	Growth and Development of Aerospace Power [By permit only, concurrent enrollment in 300]	001 002	8:30 1:30	MWTh MWTh	PB 1304 PB 1304	Blahous Hancock
350-2	Flight Regulations and Navigation [By permit only]	001	TBA			Hancock

ACCOUNTING (ACCT)

231-4	Financial Accounting [230, consent LIFT for Sections 002 and 004]	001 8:30-10:20 002 8:30-10:20 003 12:30-2:20 004 12:30-2:20	T Th T Th T Th T Th	PB 3303 PB 3315 PB 3303 PB 3315
330-4	Managerial Cost and Budgeting [231]	001 8:30-12:20	S	PB 3303
331-4	Principles of Income Taxation [231]	001 8:30-12:20	S	PB 2304
341-4	Cost Accounting Principles [231]	001 2:30-4:20	T Th	PB 2304
351a-4	Accounting Theory and Problems I [231]	e001 8:30-10:20	T Th	PB 2304
351b-4	Accounting Theory and Problems II [351a]	001 8:30-10:20 e002 8:30-10:20	M W T Th	PB 2304 PB 1313
442-4	Advanced Cost Accounting [341]	001 12:30-2:20	M W	PB 2304
453-4	Advanced Accounting Problems [351b]	001 8:30-10:20	T Th	PB 2304
456-4	Auditing [351b, 442]	001 10:30-12:20 e002 6:30-8:20	T Th M W	PB 2304 PB 2304

ANTHROPOLOGY (ANTH)

305a-3	Peoples and Cultures of the World: North America	001 2:30-4:00	M W	PB 3316 Maloney
367-3	Growth of New World Civilization	001 9:30 9:30	T Th W	PB 1307 Denny PB 2409
408-4	History of Anthropological Thought	001 10:30-12:20	T Th	PB 3317 Voget
424-4	Culture and Personality	001 1:30-3:20	T Th	PB 1307
483-3 to 9	Individual Study in Anthropology [Consent of instructor]	001 TBA		

ART (ART)

100a-5	Basic Studio	001 10:30-12:20 002 1:30-3:20	MTWThF MTWThF	SL 0218 SL 0218	M. Smith Sande
100b-5	Basic Studio	001 8:30-10:20 002 10:30-12:20	MTWThF MTWThF	SL 0225 SL 0225	Milovich Milovich
100c-5	Basic Studio	001 8:30-10:20 002 10:30-12:20 003 2:30-4:20	MTWThF MTWThF MTWThF	SL 0217 SL 0217 SL 0217	Smith Huntley Hampton
202a-3	Intermediate Studio [100a,b,c]	001 10:30-12:20	MWF	Wagner 193	Adkins
202b-3	Intermediate Studio [100a,b,c]	001 8:30-10:20	MWF	SL 0210	Hampton
202c-3	Intermediate Studio [100a,b,c]	001 8:30-11:20	T Th	Wagner 192	Sande
202d-3	Intermediate Studio [100a,b,c]	001 10:30-1:20	T Th	Wagner 198	Hampton
202f-3	Intermediate Studio [100a,b,c]	e001 6:30-9:20	M W	SL 0225	J. Smith
225b-3	History of World Art	001 8:05-9:20	T Th	LB 0044	Jacobson
300a-4	Art Education [Junior Standing]	001 8:30-10:20 002 10:30-12:20 003 12:30-2:20	MWF MWF MWF	SL 0209 SL 0209 SL 0209	Smith Smith Buddemeyer
300b-4	Art Education [300a]	001 2:30-4:20	MWF	SL 0209	Buddemeyer
300c-4	Art Education [300b]	e001 5:30-8:20	M W	SL 0209	
305a-4	Ceramics [202-9 including 202c]	001 11:30-1:20	MTWTh	Wagner 192	Sande
305b,c-4	Ceramics [305a]	001 3:30-5:20	MTWTh	Wagner 192	Cannon
310a-4	Painting [202-9 including 202d]	001 8:30-10:20	MTWTh	Wagner 198	M. Smith
310b,c-4	Painting [310a]	001 1:30-3:20	MTWTh	Wagner 198	Freund
325a,b,c-4	Studio [By permit only]	001 TBA		SL 0222	Holm

349b-3	Renaissance and Baroque Art	e001	4:30-5:45	T Th	PB 0406	Jacobson
358a,b-4	Prints [202-9 including 202b]	001	10:30-12:20	MTWTh	SL 0210	Richardson
358c-4	Prints [358b]	001	1:30-3:20	MTWTh	SL 0210	Richardson
393a,b-4	Sculpture [202-9 including 202a]	001	12:30-2:20	MTWTh	Wagner 193	Adkins
393c-4	Sculpture [393b]	001	8:30-10:20	MTWTh	Wagner 193	Adkins
401-4	Research in Painting [310a,b,c]	001	3:30-5:20	MTWTh	Wagner 198	Freund
405-4	Studio in Sculpture [393a,b,c]	001	2:30-4:20	MTWTh	Wagner 193	Huntley
410-4	Research in Prints [358a,b,c]	001	1:30-3:20	MTWTh	SL 0210	Richardson
420-4	Research in Pottery [305a,b,c]	e001	6:30-10:20	T Th	Wagner 192	Cannon
441-3	Studio in Drawing [12 hours of 300-level art]	e001	6:30-9:20	M W	SL 0217	Davis
466-2 to 12	Studio in Art Education	001	TBA		SL 0222	Holm
483-3	Research in Art History [By permit only]	001	TBA			Hilberry
501-4	Graduate Painting	001	3:30-5:20	MTWTh	Wagner 198	Freund
502-4	Graduate Sculpture	001	2:30-4:20	MTWTh	Wagner 193	Huntley
511-4	Graduate Printmaking	001	1:30-3:20	MTWTh	SL 0210	Richardson
520-4	Graduate Ceramics	e001	6:30-10:20	T Th	Wagner 192	Cannon
566-4	Research in Art Education	001	TBA			Holm
571-4	Readings in Art History	001	TBA			Hilberry
599-5 to 9	Thesis	001	TBA			
BIOLOGY (BIOL)						
301b-4	Concepts at the Cellular Level [301a]	001	9:30 8:30-11:20	MWF T	SL 2224 SL 3218	Levy Levy

302b-5	Concepts at the Organism Level [GSA 201]	002 9:30 11:30-2:20 003 9:30 2:30-5:20	MWF T MWF T	SL 2224 SL 3218 SL 2224 SL 3218	Levy Baich Levy Peterson
		001 1:30 8:30-11:20 002 1:30 11:30-2:20 003 1:30 2:30-5:20 004 1:30 10:30-1:20 005 1:30 2:30-5:20	MWF T Th MWF T Th MWF T Th MWF M F MWF M F	PB 0312 SL 3210 PB 0312 SL 3210 PB 0312 SL 3210 PB 0312 SL 3210 PB 0312 SL 3210	
303b-3	Concepts at the Population Level [303a]	001 10:30	MWF	PB 2306	Broadbooks
310a-4	Human Anatomy and Physiology [GSA 201]	001 12:30	TWThF	PB 1315	
310b-2	Human Anatomy and Physiology Laboratory [Concurrent enrollment in 310a]	001 9:30-11:20 002 11:30-1:20 003 1:30-3:20 004 3:30-5:20	W F W F W F W F	SL 3218 SL 3218 SL 3218 SL 3218	
390b-0.3	Undergraduate Biology Seminar [Junior or senior standing]	001 4:00-5:20	W	SL 3114	R. Parker
415-4	Experimental Embryology [301c]	001 8:30 8:30-11:20 8:30-11:20	T Th M W	SL 1220 SL 3218 SL 3210	N. Parker N. Parker
458-5	Functional Morphology of Vertebrates [302a]	001 12:30 2:30-5:20 2:30-5:20	M W M W	SL 1220 SL 3218 SL 3210	Axtell Axtell
493-2 to 8	Research in Biology [Consent of faculty chairman]	001 TBA			
511-4	Population Genetics [303a]	001 2:30 2:30-4:20	M W F	SL 1220 SL 1220	Frost

545-3	Physiology of Sense Organs [302]	e001	7:00-8:20	M W	SL 2224	Ratzlaff
590-0.4	Graduate Biology Seminar	e001	4:30	W	SL 3114	R. Parker
591-1 to 4	Readings in Biology [Consent of faculty chairman]	001	TBA			
593-1 to 4	Special Problems in Biology [Consent of faculty chairman]	001	TBA			
599-3 to 9	Research and Thesis [Consent of faculty chairman]	001	TBA			
BUSINESS ADMINISTRATION (B A)						
544-4	The Methodology of Business Research [Q M 510, 511; M S 580]	001	8:30-12:20	S	PB 2405	
BUSINESS COMMUNICATIONS (B C)						
390-4	Business Communications [Consent LIFT for Section 002]	001	2:30-4:20	T Th	PB 3303	
		002	2:30-4:20	T Th	PB 3315	
BUSINESS EDUCATION (BS ED)						
201a-3	Typewriting	001	TBA		PB 3415	
201b-3	Typewriting	001	TBA		PB 3415	
201c-3	Typewriting	001	TBA		PB 3415	
221b-4	Shorthand and Transcription [221a]	001	2:30-4:20	T Th	PB 3417	
304-3	Advanced Typewriting [201c]	001	TBA		PB 3415	
324a-4	Advanced Shorthand and Transcription [221c]	001	12:30-2:20	T Th	PB 3417	
324b-4	Advanced Shorthand and Transcription [324a]	001	2:30-4:20	M W	PB 3417	
		e002	6:30-8:20	M W	PB 3417	
327-4	Office Theories and Procedures [201c]	001	2:30-4:20	T Th	PB 1308	

341-4	Office Machines	001	10:30-12:20	M W	PB 3412
350-4	Consumer Income Management	001	12:30-2:20	T Th	PB 2304
403-4	Teaching Typing [304]	001	10:30-12:20	T Th	PB 3417
414b-3	Organization and Administration of Cooperative Vocational Business Education Programs	e001	5:30-8:20	T	PB 2412
417-4	Applications and Fundamentals of Data Processing in Business Education [M S 280]	001	2:30-4:20	M W	CB 0186
427-4	Records Administration	e001	4:30-6:20	M W	PB 3303
502-4	Introduction to Research in Business Education	e001	8:30-10:20	T Th	PB 1306
590-2 to 5	Readings in Business Education	001	TBA		
591-1 to 9	Individual Research in Business Education	001	TBA		
599-1 to 9	Thesis	001	TBA		
CHEMISTRY (CHEM)					
110-4	General and Inorganic Chemistry	001	11:30	MWF	SL 3114
			8:30-11:20	M	SL 2215
		002	11:30	MWF	SL 3114
			2:30-5:20	T	SL 2215
		003	11:30	MWF	SL 3114
			8:30-11:20	W	SL 2215
		004	11:30	MWF	SL 3114
			2:30-5:20	Th	SL 2215
		005	11:30	MWF	SL 3114
			8:30-11:20	F	SL 2215
111a-5	Chemical Principles and Inorganic Chemistry [High school algebra]	e001	5:30-7:20	T Th	SL 2224
			2:30-5:20	F	SL 2215
		e002	5:30-7:20	T Th	SL 2224
			7:30-10:20	T	SL 2215
		e003	5:30-7:20	T Th	SL 2224
			7:30-10:20	Th	SL 2215

111b-5	Chemical Principles and Inorganic Chemistry [111a]	001	8:30	MWF	SL 1105
			12:30	F	SL 1220
		002	11:30-2:20	M	SL 2215
			8:30	MWF	SL 1105
			3:30	W	SL 1220
		003	2:30-5:20	M	SL 1209
			8:30	MWF	SL 1105
			8:30	Th	SL 2224
		004	8:30-11:20	T	SL 1209
			8:30	MWF	SL 1105
			11:30	Th	SL 1220
		005	11:30-2:20	T	SL 1209
			8:30	MWF	SL 1105
			3:30	Th	SL 1220
		006	2:30-5:20	T	SL 1209
			8:30	MWF	SL 1105
111c-5	Chemical Principles and Inorganic Chemistry [111b]		3:30	M	SL 1220
		007	2:30-5:20	W	SL 1209
			8:30	MWF	SL 1105
			8:30	T	SL 2224
		008	8:30-11:20	Th	SL 1209
			8:30	MWF	SL 1105
			11:30	T	SL 1220
		009	11:30-2:20	Th	SL 1209
			8:30	MWF	SL 1105
			3:30	T	SL 1220
			2:30-5:20	Th	SL 1209
		001	8:30	MWF	SL 3114
			8:30-11:20	T Th	SL 2215
		002	8:30	MWF	SL 3114
			11:30-2:20	T Th	SL 2215
305b-3	Organic Chemistry Preprofessional [305a]	003	8:30	MWF	SL 3114
			11:30-2:20	W F	SL 2215
341b-3	Organic Chemistry [341a]	004	8:30	MWF	SL 3114
			2:30-5:20	M W	SL 2215
		001	8:30	MWF	PB 2306
		e001	5:30-6:45	M W	SL 3114

432a-4	Instrumental Analytical Measurements [461b or concurrent enrollment]	001 8:30-11:20 002 11:30-2:20 003 2:30-5:20 e004 5:30-8:20	T Th T Th T Th T Th	SL 2216 SL 2216 SL 2216 SL 2216
		001 1:30 002 2:30-5:20 002 1:30 2:30-5:20	T Th T Th T Th M W	SL 1220 SL 2217 SL 1220 SL 2217
446-4	Qualitative Organic Analysis [305b or 341c]	001 1:30 1:30 2:30-5:20	W F M W	PB 0408 PB 0412 SL 2216
451a-3	Biochemistry [235 and 305b or 341c]	e001 7:00-8:15	M W	SL 3114
461b-4	Physical Chemistry [461a]	001 10:30 8:30-11:20 002 10:30 8:30-11:20	MW F T MW F Th	SL 2224 SL 2217 SL 2224 SL 2217
496-2 to 6	Chemical Problems [Consent of faculty chairman]	001 TBA		
511a-3	Advanced Inorganic Chemistry [461c]	001 11:30	MW F	SL 1220
549-2	Advanced Topics in Organic Chemistry	e001 8:30	M W	SL 2224
575-1	Graduate Seminar	e001 5:30	W	SL 1225
596-2	Advanced Chemical Problems	001 TBA		
597-3 to 15	Research and Thesis	001 TBA		
COUNSELOR EDUCATION (C ED)				
305-4	Educational Psychology [By permit only] Section 004 four additional sessions TBA. Section 002 restricted to students taking Ed S 315, Spring Quarter, 1970 and Ed S 352, Fall Quarter, 1970.	001 8:30-10:20 002 10:30-12:20 003 1:30-3:20 e004 5:30-8:20	M W M W M W Th	PB 0314 PB 3316 PB 0314 PB 2403

King
Ahlbrand
Ederle

410b-2	Dynamics of College Leadership	001	1:30-3:20	T	PB 1311	
420-4	Educational Statistics Four extra sessions TBA for both sections.	e001 e002	5:30-8:20 5:30-8:20	M W	PB 2403 PB 0406	Rochester Rochester
422-4	Educational Measurements I Four extra sessions TBA.	e001	5:30-8:20	T	PB 1312	King
501-4	Special Research Problems	001	TBA			
510-4	College Student Personnel Services	e001	5:30-8:20	T	Pract Ctr	Moore
511-4	Educational Implications of Learning Theories	e001	5:30-8:20	M	PB 0406	Williams
515-4	Psychological Aspects of Education	e001	5:30-8:20	Th	PB 1308	Mermis
522-4	Educational Measurements II	e001	5:30-8:20	T	PB 1308	McBride
525-4	School Behavior Problems and Their Prevention	201	9:00-12:00	S	ANA 104	Mercedith
528-4	Advanced Guidance of the Individual	e001	5:30-8:20	T	Pract Ctr	Mermis
537-4	Counseling Theory and Practice I	e001 e002	5:30-8:20 5:30-8:20	M T	PB 0408 PB 0408	Ederle Chenault
538-4	Counseling Theory and Practice II	e001	5:30-8:20	Th	Pract Ctr	Soper
541-4	Occupational Information and Guidance	e001	5:30-8:20	W	PB 0408	Ederle
542-4	Basic Principles of Guidance	e001 e002	5:30-8:20 5:30-8:20	M W	PB 0413 Pract Ctr	King Soper
543-4	Guidance Through Groups	e001 e002 e003	5:30-8:20 5:30-8:20 5:30-8:20	T W Th	Pract Ctr Pract Ctr Tract 44a	Combs Mermis Davis
545f-4	Seminar in Guidance: Pupil Adjustment	e001	5:30-8:20	M	PB 1309	Repovich
545j-4	Seminar in Guidance: Organization and Administration	e001	5:30-8:20	T	PB 0413	Davis

562a-4	Child Development in Education	e001	5:30-8:20	Th	LB 0051
562b-4	Adolescent Development in Education	e001	5:30-8:20	T	PB 2403 Repovich
575c-4	Practicum in Secondary Guidance	001	TBA		Pract Ctr Moore, Soper, Chenault

DEANS COLLEGE (D C)

Deans College courses will be arranged as needed for those students registered in the Deans College. Student should contact Dr. Eric Sturley, Coordinator, for permission to enroll in these courses.

ECONOMICS (ECON)

200-4	Macroeconomics [Sophomore standing]	001 e002	2:30-4:20 8:30-10:20	M W M W	PB 2405 PB 3316
201-4	Microeconomics [Sophomore standing]	001 002 e003	10:20-12:20 10:30-12:20 6:30-8:20	T Th T Th T Th	PB 3303 PB 3313 PB 3313
300-4	The Monetary System and Economic Policy [200, 201]	001 e002	8:30-10:20 6:30-8:20	M W T Th	PB 2405 PB 3316
310-4	Labor Problems [200, 201]	e001	8:30-10:20	M W	PB 3313
340-4	Intermediate Micro Theory [201]	e001	8:30-10:20	T Th	PB 2411
411-4	Collective Bargaining and Dispute Settlement [200, 201]	001	8:30-10:20	M W	PB 3317
416-4	Money and Banking II [300]	e001	6:30-8:20 6:30-8:20	M W	PB 1304 SL 2231
418-4	Economic History of Europe [200, 201]	e001	4:30-6:20	M W	PB 3409
429-4	International Economics [200, 201]	001	10:30-12:20	T Th	PB 1412
431-3	Public Finance II: State and Local [330]	e001	4:30-5:45	T Th	PB 3409

467-4	Econometrics I [Consent of instructor] Saturday additional hours TBA.	e001	6:30-9:20	M	PB 3314	
501-1 to 5	Economic Readings [Consent of instructor]	001	TBA			
504-4	Economic Analysis [MBA students only]	e001	6:30-10:20	W	PB 3303	
512-4	Labor Economics [310 or 411, or consent of instructor]	e001	4:30-6:20	MW	PB 3317	
543-4	Seminar in Economic Policy [340 and 441, or consent of instructor] Saturday additional hours TBA.	e001	6:30-9:20	T	PB 3314	
566-4	Mathematical Economics II [340 and 465, or consent of instructor] Saturday additional hours TBA.	e001	6:30-9:20	W	PB 3314	
582-4	Economic Behavior [340 or consent of instructor]	e001	4:30-6:20	T Th	PB 3317	
599-1 to 9	Thesis [Consent of instructor]	001	TBA			
EDUCATION ADMINISTRATION (ED AD)						
355-4	Philosophy of Education [C Ed 305, consent of undergraduate teacher education advisement office]	001	9:30-11:20	MW	PB 0409	Curry
		002	1:30-3:20	MW	PB 0409	Curry
		003	11:30-1:20	MW	PB 0409	Hofmann
		004	9:30-11:20	T Th	PB 0409	
		005	1:30-3:20	T Th	PB 0409	
		006	11:30-1:20	T Th	PB 0409	Popp
		007	9:00-12:40	S	PB 1307	
420-4	Legal Basis of American Education Four additional sessions TBA.	e001	5:30-8:20	T	PB 0307	Ackerlund
434-4	Administrator's Workshop Four additional sessions TBA.	e001	5:30-8:20	M	PB 0307	Andree
456-4	School Supervision Four additional sessions TBA.	e001	5:30-8:20	M	PB 0309	Helsel

EDUCATION ADMINISTRATION (ED AD)						43
480-4	Backgrounds of Urban Education Four additional sessions TBA.	e001	5:30-8:20	Th	PB 1313	Burnett
500-4	Research Methods	e001	5:30-8:20	M	PB 2406	Hildebrand
		e002	5:30-8:20	T	PB 2406	Popp
		e003	5:30-8:20	W	PB 2406	Richards
		e004	5:30-8:20	Th	PB 2406	Popp
501-4	Seminar in Educational Administration	e001	5:30-8:20	W	PB 1309	Heksel
502-4	Seminar in Comparative Education	e001	5:30-8:20	Th	PB 2412	Wantling
503-4	Seminar in Philosophy of Education	e001	5:30-8:20	W	PB 1304	Hofmann
511b-4	Internship Practicum [Consent of faculty chairman]	001	TBA			
524-4	School Administration	e001	5:30-8:20	W	PB 0307	Krchniak
525-4	Personnel Administration	e001	5:30-8:20	Th	PB 0307	Ackertlund
533-4	School Buildings	e001	5:30-8:20	T	PB 0309	Andree
534b-4	School Business Administration	e001	5:30-8:20	W	PB 0309	Wilkins
551-4	Community Junior College Curriculum	e001	5:30-8:20	M	PB 2413	Boss
554-4	Contrasting Philosophies of Education	e001	5:30-8:20	T	PB 1309	Villemain
556-4	Seminar in Educational Supervision	e001	5:30-8:20	Th	PB 1309	Wheat
560-4	Curriculum [Consent of instructor and Nextep]	001	TBA			Harmin
		e002	5:30-8:20	T	LB 0044	
565-4	The Community Junior College	e001	5:30-8:20	Th	PB 1302	Goodwin
575a to k-4	Individual Research [Consent of instructor and faculty chairman] For research areas see Graduate Catalog.	001	TBA			
596-5 to 9	Independent Investigation [Consent of faculty chairman]	001	TBA			

EDUCATION ELEMENTARY (ED EL)

203-3	Understanding the Elementary School Child [GSB 201 c]	001	1:30-3:10	T Th	PB 0411	Kuenzli
314-4	Elementary School Methods [Ed Ad 355, consent of undergraduate teacher education advisement office] Additional two-hour laboratory in a public school TBA. Four extra sessions TBA for Section 003.	001 002 e003	10:30-12:20 11:30-1:20 5:30-8:20	M W T Th W	PB 0411 PB 0411 PB 3102	Steinbrook Steinbrook Carpenter
316-4	Kindergarten-Primary Methods and Curriculum [Ed Ad 355, consent of undergraduate teacher education advisement office] Additional two- hour laboratory in a public school TBA.	001	9:00-11:40	S	PB 0411	Kuenzli
337-4	Reading in the Elementary Schools [314, C Ed 305, Ed Ad 355] Four extra sessions TBA for Section 003.	001 002 e003	2:30-4:20 2:30-4:20 5:30-8:20	M W T Th Th	PB 0403 PB 0403 PB 0408	Starr Starr Starr
350d-8 to 12	Kindergarten-Primary Student Teaching [316, C Ed 305, Ed Ad 355, consent of elementary education adviser]	001	TBA			
350e-4 to 8	Advanced Kindergarten-Primary Student Teaching [350d]	001	TBA			
351d-8 to 16	Elementary Student Teaching [314, C Ed 305, Ed Ad 355, consent of elementary education adviser]	001	TBA			
351e-4 to 8	Advanced Elementary Student Teaching [351d]	001	TBA			
413-4	Children's Literature [C Ed 305] Four extra sessions TBA for Section 001.	e001 002	5:30-8:20 1:30-3:20 1:30-3:20	W W F	PB 3302 PB 2409 PB 3303	Darnell
415-4	Improvement of Instruction in Arithmetic in the Elementary School Four extra sessions TBA for Section 002.	001 e002	9:30-11:20 9:30-11:20 5:30-8:20	W F M	PB 1414 PB 0306 PB 3302	Jordan Steinbrook
442-4	Science for the Elementary Teacher [314]	e001	5:30-8:20	Th	PB 0411	Bliss

EDUCATION ELEMENTARY (ED EL)							45
480-4	Backgrounds of Urban Education Four extra sessions TBA.	e001	5:30-8:20	Th	PB 1313	Burnett	
505-4	Improvement of Reading Instruction	e001 e002	5:30-8:20 5:30-8:20	M W	PB 0403 PB 0403	Turner Bear	
507-2 to 4	Readings in Reading [505, consent of instructor]	001	TBA				
509-4 to 8	Practicum in Reading [521c, consent of instructor]	001	TBA				
513-4	Materials and Methods for the Assessment of the Disabled Reader [505]	e001	5:30-8:20	W	PB 0312	Richardson	
514-4	Organization and Administration of Reading Programs [561]	e001	5:30-8:20	T	PB 3302	Richardson	
521a-4	Diagnosis and Correction of Reading Disabilities [513, consent of instructor] Student enrolls for lecture and one clinic.	eLect Clinic 1 Clinic 2 Clinic 3	6:00-7:50 8:00-9:30 9:30-11:00 11:00-12:30	Th S S S	PB 0403 PB 0406 PB 0406 PB 0406	Bear	
521b-4	Diagnosis and Correction of Reading Disabilities [521a, consent of instructor] Student enrolls for lecture and one clinic.	eLect Clinic 1 Clinic 2 Clinic 3	5:30-7:20 8:00-9:30 9:30-11:00 11:00-12:30	T S S S	PB 0403 PB 0403 PB 0403 PB 0403	Turner	
542-4	Language Arts in the Elementary School	e001	5:30-8:20	Th	PB 3302	Darnell	
543-4	Teaching the Social Studies in the Elementary School	e001	5:30-8:20	M	PB 0312	Carpenter	
553-4 to 8	Practicum in Urban Education	001	TBA			Burnett	
561-4	The Elementary School Curriculum	001	9:00-11:40	S	PB 0314	Comer	
567b-4	Teaching Competencies and Their Application	001 e002	TBA 5:30-8:20	T	GO 2225	Harmin	
575a-k 2 to 4	Individual Research [Consent of instructor and faculty chairman] For research areas see Graduate Catalog	001	TBA				

596-5 to 9 Independent Investigation
[Consent of instructor]

001 TBA

EDUCATION SECONDARY (ED S)

315-4 High School Methods [Ed Ad 355, consent of teacher education advisement office and instructor.] Recommended during quarter preceding student teaching. Laboratory assignments TBA with instructor. Section 002 restricted to students enrolled in C Ed 305, Section 001, Fall Quarter, 1969.

001 8:30-10:20
002 9:30-11:20
003 12:30-2:20
004 8:30-10:20
e005 5:30-9:00
e006 7:00-10:20

MW
TTh
MW
TTh
Th
Th

PB 0411
PB 0411
PB 0411
PB 0314
PB 0413
PB 0413

Wilson
Ahlbrand
Schnabel
Wilson
Wilson

352d-8 to 16 Secondary Student Teaching [315, consent of student teaching office]
002 to 025 TBA

Specific sections cover each subject offered in secondary schools.

480-4 Backgrounds of Urban Education
Four extra sessions TBA.

e001 5:30-8:20 Th PB 1313 Burnett

505-4 Improvement of Reading Instruction

e001 5:30-8:20 M PB 0403 Turner
e002 5:30-8:20 W PB 0403 Bear

507-2 to 4 Readings in Reading [505, consent of instructor]

001 TBA

508-4 Seminar: Trends in Selected Areas in Secondary Schools

e001 5:30-8:20 W PB 1313 Schnabel

509-4 to 8 Practicum in Reading [521c, consent of instructor]

001 TBA

513-4 Materials and Methods for the Assessment of the Disabled Reader [505, consent of instructor]

e001 5:30-8:20 W PB 0312 Richardson

521a-4 Diagnosis and Correction of Reading Disabilities [513, consent of instructor]
Student enrolls for lecture and one clinic.

eLect 6:00-7:50 Th PB 0403 Bear
Clinic 1 8:00-9:30 S PB 0406
Clinic 2 9:30-11:00 S PB 0406
Clinic 3 11:00-12:30 S PR 0406

521b-4	Diagnosis and Correction of Reading Disabilities [521a, consent of instructor] Student enrolls for lecture and one clinic.	eLect Clinic 1 Clinic 2 Clinic 3	5:30-7:20 8:00-9:30 9:30-11:00 11:00-12:30	T S S S	PB 0403 PB 0403 PB 0403 PB 0403	Turner
553-4	Practicum in Urban Education [Consent of instructor]	001	TBA			Burnett
562-4	The High School Curriculum	e001	5:30-8:20	W	PB 2413	
564-4	High School Principalship	e001	5:30-8:20	Th	PB 0309	Andree
567b-4	Teaching Competencies and Their Applications [Consent of instructor and Nextep]	001 e002	TBA 5:30-8:20	T	GO 2225	Harmin
575a-j-4	Individual Research [Consent of faculty chairman] For research areas see Graduate Catalog.	001	TBA			
591-4	Current Problems in Secondary Education	001	9:00-11:40	S	PB 1308	
596-5 to 9	Independent Investigation	001	TBA			
ENGINEERING (ENGR)						
101a-3	Engineering Graphics	001	1:30-3:20	MWF	SL 1216	Bishop
101b-3	Engineering Graphics [101a]	001 002 e003	8:30-10:20 10:30-12:20 6:30-9:20	MWF MWF M W	SL 1216 SL 1216 SL 1216	Bishop Bishop Bishop
200b-3	Circuit Analysis [200a]	001 e002	12:30 5:00-6:20	MWF T Th	SL 0226 SL 0226	Brown McKay
201b-1	• Circuit Analysis Laboratory	001 002 e003 e004 005	10:30-1:20 2:30-5:20 6:30-9:20 6:30-9:20 2:30-5:20	T T T Th Th	SL 1212 SL 1212 SL 1212 SL 1212 SL 1212	Jones Jones McKay Hord Brown
230-3	Engineering Geology	001	8:30	MWF	SL 1220	Gore

260a-4	Engineering Mechanics [Math 252a]	001	9:30	MWThF	SL 1221	Arnold
310a-3	Physical Electronics [200, Phys 300]	001	1:30	MWF	SL 1220	Brown
311b-3	Engineering Materials [311a]	001	10:30	MWF	SL 1221	Korn
312b-1	Engineering Materials Laboratory [312a]	001	8:30-11:20	T	SL 0116a	Korn
395-2 to 8	Readings in Engineering [Junior or senior standing]	001	TBA			
410b-4	Electron Devices [410a]	001	9:30	MWThF	SL 1228	Hord
411b-1	Electron Devices Laboratory [411a]	001	11:30-2:20	Th	SL 1212	Hord
420a-3	Transport Phenomena [300, 311]	001	8:30	MWF	SL 2224	Jones
421-1	Fluid Dynamics Laboratory	001	TBA	T	SL 0116a	Jones
443a-3	Engineering Design [410]	001	2:30	MWF	SL 1211	
470a-4	Geodesy	001	3:30-5:20	T Th	SL 2224	Collins
485-4	Communication Theory [410a]	e001	5:00-6:50	T Th	SL 1228	Wallace
ENGLISH (ENG-)						
300-4	Principles of English Grammar [Completion second-level GSC]	001 e002	11:30 6:30-8:20	MTThF M W	PB 0413 PB 0303	Weir Funkhouser
302a-4	Survey of English Literature to 1550 [Completion second-level GSC]	001	12:30	MTThF	PB 2411	
302b-4	Survey of English Literature: 1550-1750 [Completion second-level GSC]	001 002 e003	9:30 1:30 8:30-10:20	MTThF MTThF T Th	PB 0413 PB 0408 PB 0408	
302c-4	Survey of English Literature: 1750 to Present [Completion second-level GSC]	001	10:30	MTThF	PB 0413	
309a-4	Survey of American Literature to 1860 [Completion second-level GSC]	001 e002	2:30 8:30-10:20	MTThF M W	PB 0413 PB 0300	

309D-4	Survey of American Literature: Post 1860 [Completion second-level GSC]	e001	1:30	F	PB 2403	PB 2411	English (ENG)	49
365-4	Shakespeare [Completion second-level GSC]	e002	6:30-8:20	T Th				
391-3	Usage in Spoken and Written English [Completion second-level GSC]	001	8:30	MTThF	PB 0413		Taylor	
400-4	Introduction to English Linguistics [Completion second-level GSC, junior standing]	001	8:30	MWF	PB 2411			
		002	3:30	MWF	PB 2411			
		e003	8:30-9:45	M W	PB 2411			
		e001	8:30-10:20	T Th	PB 2406		Wood	
404c-4	Middle English Literature: Canterbury Tales [Completion second-level GSC, junior standing]	e001	4:30-6:20	M W	PB 1307		Drake	
412a-4	English Non-Dramatic Literature: 16th Century [Completion second-level GSC, junior standing]	001	9:30	MTThF	SL 1220			
420b-4	American Poetry Since 1900 [Completion second-level GSC, junior standing]	001	8:30	MTThF	PB 1313			
447-4	American Humor and Satire [Completion second-level GSC, junior standing]	e001	6:30-8:20	T Th	PB 2413		Austin	
454b-4	English Fiction: Victorian Novel [Completion second-level GSC, junior standing]	001	9:30	MTThF	PB 1313		Duncan	
458b-4	American Fiction: Novels Since 1914 [Completion second-level GSC, junior standing]	001	11:30	MTThF	PB 1302			
460c-4	English Drama: Restoration 18th Century [Completion second-level GSC, junior standing]	001	2:30	MTThF	PB 1313		Graham	
471b-4	Shakespeare [Completion second-level GSC, junior standing]	001	2:30	MTThF	PB 2412		Murphy	
485-4	Problems in Teaching English [Completion second-level GSC, junior standing]	e001	4:30-6:20	M W	PB 2411		Frogner, Steinman	
490-4	Advanced Composition [Completion second-level GSC, junior standing]	e001	4:30-6:20	T Th	PB 1307		Hobbie	

495b-4	Literary Criticism: Modern [Completion second-level GSC, junior standing]	001	11:30	MTWF	PB 0412	Cobb
499-2 to 4	Readings in English [Completion second-level GSC, junior standing, consent of adviser]	001	TBA			
500-4	Materials and Methods of Research in English [Graduate standing]	e001	8:30-10:20	M W	PB 3422	Hoyenga
502-4	Beowulf [Graduate standing]	e001	6:30-8:20	T Th	PB 2414	Wood
513-4	Studies in 17th Century Literature: The Pastoral [Graduate standing]	e001	8:30-10:20	T Th	PB 3317	Revard
537-4	Studies in 20th Century American Writers: T. S. Eliot [Graduate standing]	e001	4:30-6:20	M W	PB 0302	Joost
538-4	Problems in American Literature [Graduate standing]	001	9:00-12:20	S	PB 3409	McDermott
598-1 to 4	Independent Review of English and American Literature [Consent of adviser, by permit only]	001	TBA			
599-2 to 4	Thesis [Consent of adviser, by permit only]	001	TBA			
FINANCE (FIN)						
320-4	Corporation Finance [Acct 231; Econ 200, 201; consent LIFT for section 002]	001 002	10:30-12:20 10:30-12:20	T Th T Th	PB 2405 PB 3315	
420-4	Problems in Corporation Finance [320]	001	12:30-2:20	M W	PB 3316	
423-4	Commercial Banking Operations [420]	001	2:30-4:20	T Th	PB 2413	
424-4	Financial Institutions [420]	001 e002	8:30-10:20 8:30-10:20	M W T Th	PB 3316 PB 3316	
425-4	Investments [420]	001	8:30-10:20	T Th	PB 2411	
523-4	Financial Management [590]	e001	6:30-10:30	T	PB 3316	

399-3 to 6 Readings [201 c, one quarter 220,
consent of chairman, by permit only]

FRENCH (FREN)

123a-1	Elementary French Conversation [Concurrent enrollment in GSD 123a]	001	TBA		
		001	10:30	F	PB 1412
123b-1	Elementary French Conversation [Concurrent enrollment in GSD 123b]	001	9:30	F	PB 2409
		002	11:30	F	PB 2409
		003	1:30	F	PB 2409
		e004	7:55-8:20	T Th	PB 2409
201b-3	Intermediate French [201a or consent of chairman]	001	10:30	M	PB 2411
			10:30	W	PB 2410
			10:30	F	PB 1308
		002	12:30	MWF	PB 1313
220-2	Intermediate French Conversation [201 c or concurrent enrollment in 201b or consent of chairman]	001	10:30	T Th	PB 2403
		002	12:30	T Th	PB 1313
230-5	Intermediate Intensive French I [130 or consent of chairman]	001	9:30	MTWThF	PB 3102 Marti
231-5	Intermediate French II [130, 131 or consent of chairman]	001	12:30	MTWThF	PB 1308 Marti
338b-4	French Literature from the Middle Ages through the 17th Century [201 c, one quarter 220 or consent of chairman]	001	2:30-4:20	T Th	PB 2406 Pellegrino
351b-3	Advanced French Conversation and Composition [351a or consent of chairman]	001	10:30	MWF	PB 2403 Delhomme
499-2 to 5	Readings in French [201 c, one quarter 220, consent of chairman, by permit only]	001	TBA		
507-3	A Study of Romanticism [Graduate standing]	e001	6:30-7:45	T Th	TBA Delhomme

GERMAN (GER)

126b-1	German Conversation [Concurrent enrollment in GSD 126b]	001 10:30 002 11:30 003 1:30 e004 6:55-7:20	F F F MW	PB 2409 PB 2410 PB 2410 PB 2409	
201b-3	Intermediate German [201a or consent of chairman]	001 9:30	MWF	PB 2410	
220-2	Intermediate German Conversation [201 c or concurrent enrollment in 201b or consent of chairman]	001 9:30	T Th	PB 2410	
313b-4	German Literature Before Romanticism [201 c, one quarter 220 or consent of chairman]	001 12:30-2:20 12:30-2:20	W F	PB 2411 PB 0409	Spahn
351b-3	Advanced German Conversation and Composition [351a or consent of chairman]	001 8:30	MWF	PB 2410	Spahn
413-3	German Linguistics [201 c, one quarter 220 or graduate standing or consent of chairman]	e001 TBA			Ryberg
499-2 to 5	Readings in German [201 c, one quarter 220, consent of chairman, by permit only]	001 TBA			

ITALIAN (ITAL)

144b-1	Italian Conversation [Concurrent enrollment in GSD 144b]	001 11:30 002 10:30	F F	PB 2411 PB 2411	Romani Romani
201b-3	Intermediate Italian [201a or consent of chairman]	001 12:30	MWF	PB 2410	Romani
220-2	Intermediate Italian Conversation [201 c or concurrent enrollment in 201b or consent of chairman]	001 12:30	T Th	PB 2410	Romani
499-3	Readings in Italian [201 c, one quarter 220,	e001 4:30-5:45	MW	PB 2410	Romani

136b-1	Russian Conversation [Concurrent enrollment in GSD 136b]	001	10:30	F	PB 2410	Zaytzeff
499-2 to 5	Readings in Russian [201 c, one quarter 220, consent of chairman, by permit only]	001	TBA			
SPANISH (SPAN)						
140b-1	Spanish Conversation [Concurrent enrollment in GSD 140b]	001	10:30	F	PB 1313	
		002	12:30	F	PB 2409	
		003	2:30	F	PB 2409	
		e004	7:55-8:20	M W	PB 2410	
201b-3	Intermediate Spanish [201a or consent of chairman]	001	11:30	MWF	PB 1313	
		002	1:30	MWF	PB 1313	
220-2	Intermediate Spanish Conversation [201 c or concurrent enrollment in 201b or consent of chairman]	001	11:30	T Th	PB 1313	
		002	1:30	T Th	PB 1313	
304b-4	Modern Spanish Literature [201 c, one quarter 220 or consent of chairman]	001	12:30-2:20	T Th	PB 2406	Osiek
351b-3	Advanced Spanish Conversation and Composition [351a or consent of chairman]	001	9:30	MWF	PB 2411	Goode
499-2 to 5	Readings in Spanish [201 c, one quarter 220, consent of chairman, by permit only]	001	TBA			
501-2	Seminar on a Selected Spanish Author [Graduate standing]	e001	5:30	M W	PB 0303	Goode
506-3	The Renaissance [Graduate standing]	e001	6:30-7:45	M W	PB 3409	Osiek
ROMANCE PHILOLOGY (R PH)						
410-4	Romance Philology I [Span 415, consent of instructor]	001	11:30	MTWTh	PB 1414	Callanan

GENERAL BUSINESS ADMINISTRATION (GBA)

140-4	Introduction to Business	001	10:30-12:20	M	PB 0312
			10:30-11:20	W	PB 0312
			11:30-12:20	W	PB 0314
		002	10:30-12:20	M	PB 0312
			10:30-11:20	W	PB 0312
			11:30-12:20	W	PB 2410
		003	10:30-12:20	M	PB 0312
			10:30-11:20	W	PB 0312
			11:30-12:20	W	PB 0302
		004	2:30-4:20	T	PB 2405
			2:30-3:20	Th	PB 2405
			3:30-4:20	Th	PB 2405
		005	2:30-4:20	T	PB 2405
			2:30-3:20	Th	PB 2405
			3:30-4:20	Th	PB 1315
		e006	6:30-8:20	M	PB 1315
			6:30-7:20	W	PB 1315
			7:30-8:20	W	PB 1315
		e007	6:30-8:20	M	PB 1315
			6:30-7:20	W	PB 1315
			7:30-8:20	W	PB 2409
		e008	6:30-8:20	M	PB 1315
			6:30-7:20	W	PB 1315
			7:30-8:20	W	PB 2403
340-4	Organizational Behavior and Decision Making [140, GSB 103a, GSB 201a,c]	e001	8:30-10:20	M W	PB 3305
341-4	Organizational Problems [340, consent LIFT for Section 002]	001	2:30-4:20	M W	PB 3303
		002	2:30-4:20	M W	PB 3315
342-4	Contracts - Agency Law	001	2:30-4:20	T Th	PB 3316
440-4	The Legal Environment of Business [140]	001	10:30-12:20	T Th	PB 3316
		e002	8:30-10:20	M W	PB 3315
441-4	Business Policy [341, senior standing]	001	12:30-2:20	M W	PB 3303

308-3	Introduction to Geographic Methods	001	9:30	MTWTh	PB 1412	Lossau
310a-4	Introduction to Cartographic Methods	001	1:30-3:20	T Th	SL 1216	Collier
343-4	Teaching of Geography	001	8:30	MTWF	PB 1412	Lampe
403b-4	Physical Geography II: Physiography [GSA 110a]	001	2:30-4:20	M W	SL 1215	Miller
406a-4	Cultural Geography I: Population [306]	001	1:30	MTWTh	PB 1412	Baker
410b-4	Quantitative Methods in Geography (Same as Govt 410b and Soc 410b)	e001	7:30-9:20	T Th	PB 0406	Guffy
417-3	Air Photo Interpretation [310a or consent of instructor]	001	8:30-11:30	S	SL 1216	Collier
426b-4	Photogrammetry	e001	4:00-6:00 8:30-11:30	W S	A.C.I.C.	Moellman
461a-4	Regional Geography of Anglo-America	e001	6:30-8:20	M W	PB 1412	Baker
467b-3	Regional Geography of Latin America	001	12:30	MWF	PB 1412	Thompson
470a-4	Urban Planning: History of Planning [308]	e001	6:30-8:20	M W	Tract 14B	Lossau
470b-4	Urban Planning: Codes and Ordinances	e001	6:30-8:20	T Th	PB 1412	Johnsen
471a-4	Regional Planning [470a]	001	2:30-4:20	M W	PB 1412	Kahn
490b-2	Tutorial in Geography	001	12:30	T Th	PB 1412	Clements
520-4	Seminar in Physical Geography	e001	4:30	MTW	SL 1215	Gore
530-2 to 4	Independent Studies in Geography	001	TBA		PB 1220	Kazeck
572a-4	Quantitative Planning Research Additional hours TBA.	001	9:30-11:20	S	Tract 14B	Lossau
574c-2	Urban Planning Design Studio	001 e002	12:30-2:20 6:30-8:20	T Th	Tract 14B Tract 14B	Roth Roth

GOVERNMENT (GOVT)

200-4	Introduction to Political Science	001	11:30	MTWTh	LB 0042	Maier, Lee
321-1 to 6	Readings in Government	001	TBA			
330-2	Illinois Government	e001	5:30-7:20	W	PB 2403	Rendleman
340a-4	American Chief Executive [GSB 203a]	001	9:30	MTWTh	PB 1308	Lovell
345b-4	American Political Parties and Interest Groups [GSB 203a]	001	2:30	MTWTh	PB 0406	Goodman
350b-4	The Political Systems of France and Italy [200]	001	9:30	TWThF	PB 0408	Feeney
370-4	Introduction to International Relations [200]	001	2:30	MTWTh	PB 0408	Glaser
410b-4	Quantitative Methods in Political Science (Same as Geog 410b and Soc 410b)	e001	7:30-9:20	T Th	PB 0406	Lee
421-4	Public Personnel Administration [320]	001	12:30	MTWTh	PB 0408	Jachim
429-4	Topics in Public Administration [GSB 203a]	001	8:30	MTWTh	PB 0408	McCabe
445b-4	Personality and Politics in the United States [GSB 203a]	001	1:30	MTWTh	PB 0412	Wides
448-4	Intergovernmental Relations in the United States [GSB 203a]	001	11:30	MTWTh	PB 0406	McHargue
449-4	Topics in American Politics [GSB 203a]	001	10:30	MTWTh	PB 0406	Tubbesing
456-4	Topics in Comparative Politics [355]	001	1:30	MTWTh	PB 0413	Maier
472a-4	General International Organizations [200]	001	10:30	TWThF	PB 0408	Feeney
473a-4	American Foreign Policy [370]	001	12:30	MTWTh	PB 0406	Glaser
479-4	Topics in International Relations [370]	001	11:30	TWThF	PR 0408	Hsieh

545-4	Seminar in American Politics	e001	6:30-10:20	W	PB 3317	Goodman
575-4	Seminar in International Relations	e001	6:30-10:20	M	PB 3317	Stahnke
HEALTH EDUCATION (H ED)						
205-4	Principles and Foundations of Health Education	001	10:30	MTWTh	PB 1308	Klein
300-3	Communicable Disease	001	12:30-2:20 12:30	T Th	PB 2412 PB 2412	Klein
302s-4	Driver Education and Training	001	11:30	MTWThF	PB 2412	Lee
313s-4	Introduction to Safety Education	e001	5:30-9:20	W	PB 2412	Klein
334s-4	First Aid	001	3:30	MTWThF	PB 2412	Archangel
443s-4	Methods and Materials in Driver Education	001	10:30	MTWThF	PB 2412	Lee
HISTORY (HIST)						
100-3	Survey of Ancient History	001	3:30	MWTh	PB 1307	Astour
102-4	Survey of Asian Civilization	001 002	10:30 1:30	MWThF MWThF	PB 1306 PB 1311	Chen Chen
309-4	The Negro in America	001 e002	2:30 6:30-8:20	MWThF M W	PB 3305 PB 0314	
316b-3	History of Africa	001	11:30	MWF	PB 0307	Grant
332b-3	Medieval History [Sophomore standing]	e001	8:30-9:45	M W	PB 0307	Wurtz
338a-3	History of Greece [Sophomore standing]	001	2:30	MWTh	PB 2411	Astour
341b-3	History of Religion in Western Civilization [GSB 101b,c]	001	2:30	MWF	PB 0307	Pearson

352b-3	History of Latin America	001	9:30	MWF	PB 0309	Millett
367b-3	History of the Far East	001	8:30	MWF	PB 0307	Chen
372b-3	History of Russia	001	12:30	MWF	PB 0307	Santoni
401b-4	History of the South	e001	6:30-8:20	M W	PB 1308	Nordhauser
410-2 to 5	Special Readings in History [Consent of chairman]	001	TBA			
415b-4	Early Modern Europe [GSB 101b,c]	001	12:30	MTWF	PB 1306	Pearson
422b-4	History of the Near East	001	1:30	MWThF	PB 0406	Grant
425b-3	American Colonial History [GSB 300a]	001	2:30	MTTh	PB 3313	McCurry
430b-3	Late Modern Europe [GSB 101c]	001	3:30-4:45	T Th	PB 0307	Weingartner
440b-3	History of American Diplomacy: 1913 to 1945 [GSB 300]	001	1:30	MWF	PB 0307	Weiss
452-3	Historical Research and Thesis Writing [History concentrations, junior standing]	001 002 e003	9:00-11:40 3:30-4:45 6:30-7:45	S M W T Th	PB 2414 PB 2414 PB 3317	Riddleberger Millett Kimball
458b-4	History of Science: 1500 to 1900 [GSB 101b,c]	001	9:30	MTWTh	PB 0307	Erickson
500-4	History Seminar [Graduate standing] Additional hours TBA.	e001	5:00	W	PB 1306	Kimball
510-2 to 5	Readings in History [Consent of chairman]	001	TBA			
554-4	Problems in 19th Century America	001	1:30-3:20	T Th	PB 3317	Beard
599-1 to 9	Thesis [Consent of chairman]	001	TBA			
HUMANITIES (HUM)						
302-3 to 4	Humanities Honors [By permit only] Section 001: American Hero Section 002: The 20th Century European Novel	001 e002	2:30 6:30-7:45	MWF T Th	PB 1304 PB 0233	Guenther Zanger

457-4	Radio and Television in the Classroom	e001	5:30-8:20	T	PB 0411	Gilligan
470-4	Programmed Instruction	e001	5:30-8:20	W	PB 0409	Mundt
510-4	Mass Communication in Education	e001	5:30-8:20	M	PB 0411	Mitchell
514-4	Survey of Research and Development in Instructional Materials	e001	5:30-8:20	W	PB 0411	Mitchell
546-4	Integration of Audio-Visual Materials in the Classroom	e001	5:30-8:20	Th	PB 1414	Mitchell
554-4	Administration of an Instructional Materials Center	e001	5:30-8:20	T	PB 1414	Mundt
576-2 to 8	Problems in Instructional Materials	001	TBA			Madison
JOURNALISM (J RNL)						
102-3	Introduction to Journalism II	001	2:30	MWF	PB 0303	
201-3	News Writing and Editing I	001	9:30	MWF	CB 0186	
330-3	Editorial Writing	001	10:30	MWF	CB 0186	
345-3	History of Journalism	001	1:30	MWF	PB 1309	
402-2	Journalism Practicum	001	TBA			
MANAGEMENT SCIENCE (M S)						
281-4	Principles of Computer Programming [Consent of instructor]	001	12:30-2:20	T Th	PB 3313	
310-4	Operations Research for Managers [211]	001 e002	10:30-12:20 6:30-8:20	M W M W	PB 3303 PB 3313	
380-4	Management Operating Systems I [Acct 231]	e001	6:30-8:20	T Th	PB 2405	
381-4	Management Systems II [310, 380]	001	8:30-10:20	T Th	PB 2405	
382-4	Management Systems Simulation [310]	001	9:30-4:30	T Th	PB 1313	

489-1 to 4 Independent Study in Management Science
[Consent of instructor]

MARKETING (MKTG)

370-4	Consumer Behavior [GSB 103a,b, GSB 201 c, Econ 201]	e001	6:30-8:20	M W	PB 2405	
371-4	Principles of Marketing Management [QM 211, consent LIFT for Section 002]	001	10:30-12:20	M W	PB 2405	
		002	10:30-12:20	M W	PB 3315	
452-4	Physical Distribution Management [470, QM 310]	001	10:30-12:20	M W	PB 3313	
		e002	8:30-10:20	T Th	PB 3315	
470-4	Marketing Research [371, QM 211]	001	12:30-2:20	M W	PB 3313	
471-4	Advertising Policy and Management [470]	001	2:30-4:20	T Th	PB 1309	
472-4	Sales Policy and Management [470]	001	8:30-10:20	M W	PB 3313	
		e002	6:30-8:20	T Th	PB 3404	
473-4	Advanced Marketing Management [Senior standing]	001	10:30-12:20	T Th	PB 3404	
479-4	Independent Study in Marketing [Consent of chairman]	001	TBA			
573-4	Marketing Policies [570]	e001	6:30-10:20	Th	PB 3303	

MATHEMATICS (MATH)

101-4	Fundamental Mathematics	001	12:30	MTWThF	PB 0304	Holden
		002	2:30	MTWThF	PB 0304	Wu
		003	8:30	MTWThF	PB 0304	Berardino
		004	3:30	MTWThF	PB 0304	Raymond
		005	9:30	MTWThF	PB 0304	Gusewelle
		e006	6:30-8:20	M W	PB 0304	
150a-4	Elementary Calculus and Analytic Geometry [GSD 114c]	001	9:30	MWThF	PB 0303	Verderber
		002	1:30	MTWF	SL 2224	
		e003	6:30-8:20	M W	PB 0302	

150b-4	Elementary Calculus and Analytic Geometry [150a]	001 10:30 002 10:30 003 11:30 004 11:30 e005 6:30-8:20	MWThF MWThF MTThF MWThF M W	SL 1225 SL 1224 SL 2224 PB 0303 SL 1225	Poynor Lindstrum Kessler M. Livingston Isaacson
225-4	Programming for Digital Computers [GSD 114a]	001 2:30 002 2:30 003 2:30 004 2:30 005 2:30 e006 6:30-8:20	M W T Th M W T Th M W F M W T Th M W T Th T Th	PB 1312 CB 0186 PB 1312 CB 0186 PB 1312 CB 0186 PB 1312 CB 0186 PB 1312 CB 0186 CB 0186	Rutledge Coin Rutledge Coin Rutledge Coin Rutledge Coin Rutledge Coin Wallace
250-4	Calculus and Analytic Geometry [150b]	001 9:30 002 1:30	MTWF MWThF	SL 1224 PB 0303	Wilson Phillips
305-4	Applied Mathematics for the Physical Sciences [250]	001 1:30	MTThF	SL 1225	Garder
310-4	The Teaching of Elementary Mathematics [GSD 112]	001 8:30 002 9:30	MWThF MWThF	SL 1225 SL 1225	Fanning Fanning
311-4	The Teaching of Secondary Mathematics [321, Ed S 315]	001 12:30	MTThF	SL 1221	Gwillim
321-4	Elementary Matrix Algebra [150b]	e001 6:30-8:20	T Th	SL 1225	Kessler
350a-4	Multivariable Calculus [250]	001 8:30 002 1:30	MTThF MTThF	SL 1221 SL 1224	Oursler Bennewitz
350b-4	Multivariable Calculus [252b or 350a]	001 11:30	MWThF	SL 1225	Stephen
395-2 to 12	Readings in Mathematics [12 hours of 300-400 level math, 4.0 average, consent of instructor]	001 TBA			
405a-4	Applied Mathematics for the Physical Sciences [150b]	001 11:30	MTWF	SL 1224	Wilson

MATHEMATICS (MATH)							63
410b-4	Statistical Analysis [410a]	e001	4:30-6:20	T Th	SL 1225	Clemans	
420a-3	Fundamental Concepts of Algebra [321]	001	12:30	MWF	SL 1224	Lazerson	
420b-3	Fundamental Concepts of Algebra [420a]	001	2:30	MWF	SL 0226	M. Livingston	
421a-3	Linear Algebra [321]	e001	6:30-7:45	T Th	SL 1224	Poynor	
430-4	Projective Geometry [321 or consent of instructor]	001	1:30-3:20	T Th	SL 1221		
446b-3	Structure of Mathematics	e001	6:30-7:45	T Th	SL 1220	Holden	
452b-3	Advanced Calculus [452a]	001	1:30	MWF	SL 1221	Hattermer	
455b-3	Advanced Mathematics for the Physical Sciences [455a]	e001	5:00-6:15	T Th	SL 1224	Kurth	
458b-3	Finite Mathematics [458a]	e001	6:30-7:45	T Th	SL 1221	Sturley	
472b-3	Operations Research [472a]	e001	8:30-9:45	T Th	CB 0186	Wallace	
473a-3	Computer Science [225, 250]	e001	8:00-9:15	M W	SL 1224		
474a-3	Introduction to Digital Systems Design [225, 250]	e001	6:30-7:45	M W	SL 1221		
475b-3	Numerical Analysis [475a]	e001	5:00-6:15	M W	SL 1224	Isaacson	
483a-3	Introduction to Mathematical Statistics [350]	e001	6:30-7:45	M W	SL 1224	Clemans	
483b-3	Introduction to Mathematical Statistics [483a]	001	12:30	MWF	SL 1225	Pendergrass	
501b-3	Real Variables [501a]	e001	4:45-6:00	M W	SL 1221	Kurth	
520b-3	Modern Algebra [520a]	e001	8:00-9:15	M W	SL 1220	Lazerson	
530a-3	Point Set Topology [433]	e001	8:00-9:15	T Th	SL 1221	Bennewitz	
550a-1 to 5	Seminar in Algebra [Consent of chairman]	001	TBA				

550c-1 to 5	Seminar in Analysis [Consent of chairman]	001	TBA		
555b-3	Complex Variables [555a]	e001	6:30-7:45	M W	SL 1220 A. Livingston
576b-3	Advanced Topics in Applied Mathematics [576a]	e001	8:00-9:15	M W	SL 1334 Garder
580b-3	Mathematical Methods of Statistics [580a]	e001	8:00-9:15	M W	SL 1221 Clemans
595-1 to 5	Special Project	001	TBA		
599-1 to 5	Thesis	001	TBA		
MUSIC (MUS)					
001a-1	Symphonic Band [By permit only]	001	12:30-2:20	MWF	CB 1029 Fjerstad
001b-1	University Band	001	12:30-2:20	T Th	CB 1029 Oberlag
001c-1	Stage Band [By permit only]	001	10:30	T Th	CB 1029 Davis
002c-1	Male Chorus	001	2:30	MWF	CB 0158 Van Camp
002d-1	Women's Glee Club	001	2:30	MWF	CB 1029 Wisenmeyer
002e-1	Community Choral Society	e001	7:30-9:20	T	PB 1402 Van Camp
002f-1	Madrigals [By permit only]	001	2:30	T Th	CB 0158 Van Camp
002g-1	Concert Chorale [By permit only]	001	11:30	MTWTh	CB 1029 Van Camp
003-1	University Symphony Orchestra [By permit only]	e001	8:00-10:00	T	CB 1029 Schieber
010a-1	Class Strings	001	1:30	MWF	CB 0158 Schieber
010c-1	Class Brass	001	3:30	T Th	CB 1029 Fjerstad
010e-1	Class Piano	001	8:30	MWF	PB 3406 Cambon
	Section 001—second year concentrations	002	9:30	MWF	PB 3406 Ferguson
	Section 002—first year concentrations	003	8:00-9:20	T Th	PB 3406 Ferguson
	Section 003—non-majors	004	1:30	MWF	PB 3406 Ferguson

		002	8:30	MWF	CB 0158	Vang
105a-4	Theory of Music	001	8:00-9:20	T Th	CB 0158	Davis
105b-4	Theory of Music	001	8:30	MTWThF	CB 0194	Perry
		002	1:30	MTWThF	CB 0194	Pival
		003	2:30	MTWThF	CB 0194	Kresteff
106b-5	Techniques and Literature of Music Practice	001	8:30	MTWThF	PB 3404	Warren
140a-u 2 or 4	Private Applied Music [By permit only]	001	TBA			
	a. Violin	h. Bassoon			o. Tuba	
	b. Viola	i. Saxophone			p. Baritone	
	c. Cello	j. Percussion			q. Voice	
	d. String Bass	k. Piano			r. Organ	
	e. Flute	l. French Horn			s. Harpsichord	
	f. Oboe	m. Trumpet			t. Harp	
	g. Clarinet	n. Trombone			u. Guitar	
200-3	Fundamentals of Music	001	12:30	MWF	PB 3406	Vang
205b-3	Theory of Music	001	10:30	MTWTh	CB 0194	Oberlag
		e002	4:30	MTWTh	PB 3406	Davis
206b-5	Techniques and Literature of Music Practice	001	9:30	MTWThF	PB 3404	Warren
240a-u 2 or 4	Private Applied Music [By permit only] See 140a-u.	001	TBA			
300-3	Music Education - Elementary	001	3:30-5:20	T Th	PB 3404	McMillan
301b-3	Music Education	001	2:30	MWF	PB 3404	Tulloss
309b-3	Orchestration	001	9:30	MWF	CB 0158	Tarwater
312b-3	Composition Additional hour TBA.	001	12:30	T Th	CB 0194	Davis
318b-3	Conducting	001	10:30	MWF	PB 3406	Schieber
						MUSIC (MUS)
						65

326b-3	Analysis Additional hour TBA.	001	2:30	T Th	PB 3404	Warren
340a-u 2 or 4	Private Applied Music [By permit only] See 140a-u.	001	TBA			
355a-1	Chamber Music Ensemble - Brass [By permit only]	001	11:30	T Th	CB 0158	Fjerstad
355b-1	Chamber Music Ensemble - Woodwind [By permit only]	001	TBA			Oberlag
355c-1	Chamber Music Ensemble - Strings [By permit only]	001	TBA			Pival
357b-3	Music History and Literature	001	3:30	MWF	PB 3404	Cambon
401-3	Psychophysiology of Music	001	3:30	MWF	CB 0194	Joseph
420-1	Music Education Practicum [By permit only]	e001	5:30-7:30	Th	CB 0104	Brauer
440a-u 2 or 4	Private Applied Music [By permit only] See 140a-u.	001	TBA			
455-4	Elementary Music Education Workshop Additional hour TBA.	e001	5:30-8:20	W	PB 3404	Tulloss, Vang
461b-3	Teaching Techniques and Materials for the Advanced Levels	001	1:30	MWF	CB 0160	Premezzi, Spottiswoode
481-2 to 6	Readings in Music Theory [By permit only]	001	TBA			
482-2 to 6	Readings in Music History-Literature [By permit only]	001	TBA			
483-2 to 6	Readings in Music Education [By permit only]	001	TBA			
499-1 to 3	Independent Study [By permit only]	001	TBA			
502a-3	History and Analysis of Musical Style	e001	5:30-8:20	M	CB 0194	Warren

		e001	4:30	MWF	TBA	Moore
519b-3	Vocal Pedagogy and Literature [By permit only]	e001				
540a-u 2 or 4	Private Applied Music [By permit only] See 140a-u.	001	TBA			
550a-4	Organization and Administration of the Music Education Program [By permit only]	e001	5:30-8:20	T	CB 0194	McMillan
566-1	Instrumental Ensemble [By permit only]	001	TBA			Fjerstad
567-1	Vocal Ensemble [By permit only]	001	TBA			Van Camp
599.3 to 9	Thesis [By permit only]	001				
NURSING (NURS)						
280b-4	Nursing and Community Health [280a] Lab TBA.	001	11:30-1:20	M	PB 1315	
302a-4	Nursing II	001	10:30-12:20 8:00-2:30	M T	PB 0408 Hospital	
325b-4	Nursing IV	001	9:30-11:20 8:00-2:30	M W or F	PB 0403 Hospital	
355a-2	Backgrounds and Trends in Nursing	001	9:30-11:20	Th	PB 1315	
363a-4	Nursing III	001	8:30-10:20 8:00-2:30	M W	PB 1302 Hospital	
363c-4	Nursing III	001	12:30-2:20 8:00-2:30	M T	PB 0403 Hospital	
375b-4	Nursing V	001	8:30-10:20 8:00-4:30	Th W or F	CB 0186 Agency	
385-1 to 4	Independent Study [By permit only]	001	TBA			

PERSONNEL (PERS)

450-4	Personnel Administration [GBA 340]	001	12:30-2:20	T Th	PB 0312	
451-4	Labor Relations Law and Collective Bargaining [GBA 340]	001	8:30-12:20	S	PB 2410	
452-4	Advanced Problems in Personnel Administration [450]	001 e002	8:30-10:20 6:30-8:20	M W T Th	PB 2412 PB 2410	
453-4	Advanced Problems in Industrial Relations [451]	001	8:30-10:20	T Th	PB 3313	

PHILOSOPHY (PHIL)

200-4	An Introduction to Philosophy	001 e002	12:30 6:30-8:20	MTWTh M W	PB 1414 LB 0044	Barker Paxson
376-4	Advanced Ethics [GSC 375, Sophomore standing]	001	12:30 12:30	M F T Th	PB 0412 PB 0413	Glossop
385c-4	History of Western Philosophy: 17th and 18th Centuries [Sophomore standing]	001	10:30-12:20	T Th	PB 3102	Keene
403-4	Buddhist Thought [Junior standing]	001	12:30-2:20	T Th	PB 3102	Linden
430-4	Symbolic Logic [Junior standing]	001	2:30	MTWTh	PB 0309	Barker
443-4	Philosophy of History [Junior standing]	001	1:30	MTThF	PB 1308	Emblom
490-4	Special Problems [By permit only] Section 001 –Philosophy of the Mind. Section 002–La philosophie en France au 18 siecle.	001 002	2:30-4:20 9:30	T Th MTThF	PB 1304 TBA	Seligman Marti

495-2 to 12	Independent Readings [By permit only]	001	TBA			
531-4	Plato [Graduate standing]	e001	4:30-6:20	T Th	PB 2411	Linden
545-4	Rationalism [Graduate standing]	e001	6:30-8:20	T	PB 1304	Emblom

PHYSICAL EDUCATION (P E)

025-0	Orientation	001	9:30	F	PB 0307	Showers
305-3	Physical Education for the Atypical Student	001	11:30	MWF	PB 1308	Showers
323b-1	Officiating Techniques	001	TBA			Guelker
349-2	Camping Education	001	8:30	M W	PB 0303	
350-4	Methods and Materials for Teaching Physical Education Activities in The Elementary School Additional ten hours TBA for all sections.	001	8:30-10:20	T Th	LB 0033	Moehn
		002	1:30-3:20	M W	LB 0033	Moehn
		e003	5:30-8:20	Th	LB 0033	Luedke
		e004	5:30-8:20	M	LB 0033	Moehn
354-3	Organization and Administration of Physical Education and Athletics	001	2:30	T	SL 1220	Archangel
			2:30	W	SL 1225	
			2:30	F	SL 1224	
365-3	Organization and Administration of Community Recreation	001	9:30 9:30	W F	PB 1313 PB 1308	
370-4	Tests and Measurements	001	12:30 12:30-2:20	M W F	PB 0413 PB 0413	Showers
382-4	Methods and Materials for Teaching Physical Education Activities in the Secondary School	001	10:30-12:20	T Th	PB 2406	Archangel
388-2	Self Testing Activities Additional eight hours TBA.	201	1:30-3:20	M	ANA 100	Luedke
389-4	Affiliation in Physical Education	001	TBA			Luedke
402-4	Organization and Administration of Intramural and Extramural Activities Additional hours TBA.	001	10:30	MWF	PB 3102	Guelker
427-4	Physical Education and Recreation for the Handicapped	e001	5:30-9:20	M	PB 2412	

475-4	Individual Research	001	TBA			Herrold
502-4	Foundations of Motor Skills	e001	5:30-8:20	Th	PB 1304	Showers
503-4	Seminar in Physical Education	e001	5:30-8:20	T	LB 0033	
525-4	Readings in Physical Education	001	TBA			Herrold
PHYSICS (PHYS)						
206b-5	College Physics [206a]	001	11:30	MTWThF	SL 0226	
			12:30-2:20	F	SL 1218	
		002	11:30	MTWThF	SL 0226	
			2:30-4:20	F	SL 1218	
211a-4	University Physics: Mechanics [Concurrent enrollment in Math 150a]	001	9:30	MWF	PB 1312	
			9:30	T Th	PB 0309	
		002	9:30	MWF	PB 1312	
			9:30	T Th	SL 2224	
211b-4	University Physics: Light, Sound, and Heat [211a] Student enrolls for one lecture and one problem session.	Lect A	12:30	MWF	SL 1105	
		Lect eB	6:30-7:45	T Th	SL 1105	
		001	10:30	T Th	SL 1221	
		002	10:30	T Th	SL 2224	
		003	11:30	T Th	PB 1308	
		004	11:30	T Th	PB 1309	
		e005	7:55-8:45	T Th	SL 1105	
212a-1	University Physics Laboratory [Concurrent enrollment in 211a]	001	2:30-5:20	M	SL 0212	
		002	2:30-5:20	T	SL 0212	
		003	10:30-1:20	T	SL 0212	
212b-1	University Physics Laboratory [Concurrent enrollment in 211b]	001	8:30-11:20	T	SL 1218	
		002	8:30-11:20	W	SL 1218	
		003	8:30-11:20	Th	SL 1218	
		004	8:30-11:20	F	SL 1218	
		005	2:30-5:20	T	SL 1218	
		006	2:30-5:20	W	SL 1218	
		007	2:30-5:20	Th	SL 1218	
		008	2:30-5:20	M	SL 1218	
		e009	6:30-9:20	W	SL 1218	

305a-4 Introduction to Electromagnetic Field Theory
[211c, Math 305]

001 10:30 MTThF SL 0226
e002 8:00-9:40 T Th SL 1220

310-4 Physical Optics [211b, Math 250]

001 1:30 MTThF SL 0226

311-1 Optics Laboratory

001 1:30-4:20 W SL 0212

375-2 Seminar [Consent of chairman]

001 TBA

404-3 Introduction to Statistical Mechanics
[301, 304]

e001 6:30-7:45 M W SL 0226

415a-4 Wave Mechanics [300a, Math 305]

001 9:30 MTThF SL 0226

418-1 Modern Physics Laboratory [300a]

001 2:30-5:20 F SL 0212

420-2 to 5 Special Projects [Consent of chairman]

001 TBA

510b-3 Classical Mechanics [510a]

e001 8:00-9:20 T Th SL 0226

530a-3 Electromagnetic Theory

e001 6:30-7:45 T Th SL 0226

531b-3 Quantum Mechanics [531a]

e001 8:00-9:20 M W SL 0226

PRODUCTION (PROD)

462-4 Production Planning and Control [460]

e001 6:30-8:20 T Th SL 2231

PSYCHOLOGY (PSYC)

211a-4 Principles and Methods of Psychology
[GSB 201 c]

001 9:30 T Th PB 2306
10:30-12:20 M SL 2212

002 9:30 T Th PB 2306
10:30-12:20 T SL 2212

003 9:30 T Th PB 2306
10:30-12:20 W SL 2212

004 9:30 T Th PB 2306
10:30-12:20 F SL 2212

e005 6:30-8:20 T PB 2304
6:30-8:20 Th SL 2212

211b-4	Principles and Methods of Psychology [GSB 201 c]	001 12:30-2:20 e002 6:30-8:20	MW T Th	PB 3305 PB 0412	Brinkman Starr
301-4	Child Psychology [GSB 201 c]	001 8:30-10:20 002 10:30-12:20 003 12:30-2:20 e004 6:30-8:20	T Th MW T Th T Th	PB 3305 PB 3305 PB 3305 PB 3305	Kohfeld Calhoun Calhoun
303-4	Adolescent Psychology [GSB 201 c]	001 8:30-10:20 002 10:30-12:20 e003 6:30-8:20	MW T Th MW	PB 3302 PB 3305 PB 3305	Kuenzli
304-4	Psychology of Maturity and Old Age [GSB 201 c]	001 12:30-2:20	T Th	PB 3302	Traxler
305-4	Introduction to Personality Dynamics [GSB 201 c]	001 8:30-10:20 e002 4:30-6:20	T Th T Th	PB 3302 PB 3305	Lamp
307-4	Social Psychology [GSB 201 c]	001 10:30-12:20 002 12:30-2:20	T Th MW	PB 3302 PB 3302	Robbins Robbins
311-4	Experimental Psychology: Learning [211]	001 8:30-10:20 e002 6:30-8:20	MW MW	SL 2212 SL 2212	Kleinman Kleinman
312-4	Experimental Psychology: Perception [311]	001 12:30-2:20	T Th	SL 2212	Kohfeld
313-4	Experimental Psychology: Motivation [311]	001 12:30-2:20	MW	SL 2212	Ferguson
407-4	Theories of Learning	001 10:30-12:20 10:30-12:20	W F	PB 0309 PB 0406	Ferguson
409-4	History and Systems	001 10:30-12:20	MW	PB 3302	McCall
420-4	Experimental Analysis of Behavior [GSB 201 c]	001 2:30-4:20 2:30-4:20	T Th	PB 3302 SL 2212	McLaughlin
421-4	Psychological Tests and Measurements	001 10:30-12:20 10:30-12:20	W F	PB 0413 PB 3302	Starr
431-4	Psychopathology [305]	001 2:30-4:20	MW	PB 0411	Taliana

451-4	Meets first four Fridays only. Advanced Child Psychology [301] Meets first four Fridays only.	e001	5:30-8:20 5:30-8:20	M F	PB 1402 PB 1410	Traxler
461-4	Advanced Social Psychology [307] Meets first four Fridays only.	e001	5:30-8:20 5:30-8:20	M F	PB 3316 PB 3404	Robbins
465-4	Group Dynamics and Individual Behavior Meets first four Fridays only. [307]	001 e002	1:30-3:20 5:30-8:20 5:30-8:20	T Th W F	PB 0307 PB 2415 PB 2411	Walsh Russo
473-4	Personnel Psychology [320] Meets first four Fridays only.	e001	5:30-8:20	M F	PB 1316	Daugherty
490-1 to 4	Independent Projects	001	TBA			
495-4	Seminar: Selected Topics - Human Performance Meets first four Fridays only.	e001	5:30-8:20	T F	SL 2212	Kohfeld
501b-4	Proseminar in General Psychology	e001	5:30-7:20	T Th	PB 3315	
521-4	Research Design and Inference II	e001	7:30-9:20	T Th	PB 3315	
531-4	Advanced Psychopathology [Consent of instructor]	e001	5:30-8:20	M	CB 0186	Skinner
541a-4	Psychodiagnostics I [211b, 421, consent of instructor] Lab TBA.	001	TBA			Lamp
541b-4	Psychodiagnostics I [211b, 421, consent of instructor] Lab TBA.	001	TBA			
590-4	Readings in Psychology	001	TBA			
591-4	Research in Psychology	001	TBA			
593-2 to 4	Practicum in Psychology	001	TBA			
593s-2 to 4	Practicum in Psychology: School Psychology	001	TBA			
599-2 to 4	Thesis	001	TBA			

QUANTITATIVE METHODS (Q M)

211-4	Statistical Analysis for Business Decisions [210, consent LIFT for Sections 002 and 004]	001 8:30-10:20 002 8:30-10:20 003 12:30-2:20 004 12:30-2:20	M W M W M W M W	PB 3303 PB 3315 PB 2405 PB 3315
511-4	Quantitative Methods for Decision Making	e001 6:30-10:20	M	PB 3303
SCIENCE AND TECHNOLOGY (SC & T)				
390-1 to 15	Science and Technology Honors [Consent of chairman]	001 TBA		
403a-3	Experiments and Techniques of Physics	001 TBA		SL 0212
415-1	Instructional Innovation for the Physical Sciences	001 9:00-12:00	S	SL 0226
505b-3	Concepts of Electricity and Magnetism	e001 6:00-8:30	T	SL 0212
SOCIOLOGY (SOC)				
301-4	Principles of Sociology	e001 6:30-8:20	M W	PB 1311 Reynolds
302-4	Contemporary Social Problems	001 10:30-12:20 e002 6:30-8:20	M W T Th	PB 2304 Humphreys PB 1311 Hass
312-4	Sociological Research	e001 4:30-6:20	T Th	PB 1311 Crowther
320-4	Race and Minority Group Relations	e001 4:30-6:20	M W	PB 1312 Teer
321-4	Socialization of the Individual	001 11:30	MTWTh	PB 2403 Campisi
340-4	The Family	001 10:30	MTWTh	PB 1307 Taylor
351-4	Sociology of Religion	001 1:30-3:20 1:30-3:20	W F	PB 0302 Henslin PB 0314
396-1 to 5	Readings in Sociology	001 TBA		
410b-4	Quantitative Methods in Sociology	e001 7:30-9:20	T Th	PB 0406 Crowther

439-4	Medical Sociology	001	1:30	MTWTh	PB 2403	Reynolds
451-4	Social Thought II: The Sociological Movement	001	12:30	MTWTh	PB 1307	Reynolds
453-4	Social Movements	001	1:30-3:20	T Th	PB 1414	Campisi
474-4	Crime and the Legal Process	001	10:30-12:20	T Th	PB 2306	Humphreys
525-4	Methods of Field Research	001	3:30-5:20	T Th	PB 0309	Haas
SOCIAL WELFARE (SOC W)						
375-4	Social Welfare as a Social Institution	001	10:30	MTWTh	PB 0314	Teer
SPECIAL EDUCATION (SP ED)						
353-8 to 16	Special Education Student Teaching [By permit only]	001	TBA			
410b-4	Problems and Characteristics of the Mentally Retarded Child [414] Meets first four Fridays only.	e001	4:30-7:20 4:30-7:20	M F	PB 0412 PB 2413	Tucker
410g-4	Problems and Characteristics of the Learning Disabled Child [414] Meets second four Fridays only.	e001	5:30-8:20	W F	PB 2414	Long
413a-4	Directed Observation of the Emotionally Disturbed [410a or concurrent enrollment in 410a]	001	TBA			Long
413b-4	Directed Observation of the Educable Mentally Handicapped [410b or concurrent enrollment in 410b]	001	TBA			Tucker
414-4	The Exceptional Child [C Ed 305] Meets first four Fridays only.	001 e002	11:30 5:30-8:20	MTWTh T F	PB 0403 PB 1313	Trout Trout
420a-4	Methods and Materials in the Education of the Emotionally Disturbed Meets second four Fridays only.	e001	5:30-8:20	Th F	PB 0314	Long

420b-4	Methods and Materials in the Education of the Educable Mentally Handicapped [410b] Meets first four Fridays only.	e001	5:30-8:20	T F	LB 0051	Zenk
430-4	Behavior Modification in Special Education [Psync 420] Meets second four Fridays only.	e001	5:30-8:20 5:30-8:20	M F	PB 2414 PB 3102	Ferritor
481 c-4	Seminar: Gifted Meets first four Fridays only.	e001	5:30-8:20	Th F	PB 2415	Shaffer
496-4	Readings and Independent Study in Special Education [By permit only]	001	TBA			
501-4	Special Research Problem [By permit only]	001	TBA			
513-4	Organization, Administration, and Supervision of Special Classes [414]	e001	5:30-8:20	M	PB 2415	Whiteside
577-4	Practicum in Special Education [Consent of chairman]	001	TBA			
580a-4	Seminar: Education of Exceptional Children	001	8:30-11:20	S	PB 2415	Shaffer
590b-4	Seminar: Mental Retardation	e001	5:30-8:20	Th	PB 2304	Tucker
SPEECH (SPCH)						
202-3	Principles of Discussion	001	1:30-3:20	T Th	PB 1302	Salden
224-4	Communicative Reading	001	12:30	TWThF	PB 1309	Mulvany
406-4	Teaching Speech in Secondary Schools [16 hours speech]	001	10:30	TWThF	PB 1302	White
408-4	Psychology of Speech	001	9:30	TWThF	PB 1302	Stoppe
510-4	Seminar: Persuasion and Social Control Additional hour TBA.	e001	5:30-8:20	M	SL 2231	Hawkins

200-4	Phonetics	001	9:30	MWThF	CB 2012	Lieblch
203-4	Introduction to Speech Science	001	10:30	MWThF	CB 2012	Carey
318-4	Voice and Cleft Palate	001	11:30	MWThF	CB 2012	Carey
405b-4	Practicum in Speech and Hearing Therapy Additional hour TBA.	001	8:30	W	CB 2012	Maag
406-4	Techniques and Interpretation of Hearing Tests	001	1:30	MWThF	CB 2012	Shoquist
412-4	Cerebral Palsy	001	2:30	MWThF	CB 2012	Taylor
420-4	Advanced Clinical Audiometry [406] Additional hour TBA.	e001	5:30-8:20	M	CB 2012	Shoquist
428-4	Speech Correction for the Classroom Teacher Additional hour TBA.	e001	5:30-8:20	Th	CB 2012	Maag
521-4	Seminar in Articulation and Delayed Speech Additional hour TBA.	e001	5:30-8:20	W	CB 2012	Lieblch
THEATER (THEA)						
100-0,2,4, or 6	First Year Work in Theater [Consent of Director of Theater]	001	TBA		CB 2015	
200-0,2,4, or 6	Second Year Work in Theater [Consent of Director of Theater]	001	TBA		CB 2015	
300-0,2,4, or 6	Third Year Work in Theater [Consent of Director of Theater]	001	TBA		CB 2015	
400-0,2,4, or 6	Fourth Year Work in Theater [Consent of Director of Theater]	001	TBA		CB 2015	

Students enrolling in Theater 100-400 must be advised by the Director of University Theater, Dr. Kluth, CB 1038, before their appointment with General Studies Advisement and before registering. Students will be assigned the following hours according to the amount of credit taken:

Lab TBA.

VOCATIONAL-TECHNICAL INSTITUTE (VTI)

CCS 107-2 Health and First Aid

e001 6:30-8:20 Th PB 1402

CCS 117a-3 Science and Nature

e001 6:30-9:20 W TBA

TECHNICAL AND ADULT EDUCATION (T & AE)

English Review

e001 8:30-10:20 T PB 0412
e002 8:30-10:20 Th PB 0412
e003 6:30-8:20 W PB 0413
e004 8:30-10:20 W PB 0413

Reading Improvement

e001 4:30-6:20 T PB 0412
e002 4:30-6:20 Th PB 0412
e003 6:30-8:20 W PB 0412
e004 8:30-10:20 W PB 0412

Southern Illinois University, Carbondale
Edwardsville, Illinois 62025

Deanna W. Jones
Carbondale, Illinois 62901

Schedule for
Late Afternoon,
Evening, and
Saturday Classes



Edwardsville Campus
Winter Quarter, 1970

Schedule for
Late Afternoon,
Evening, and
Saturday Classes



Edwardsville Campus
Winter Quarter, 1970

Contents

University Calendar	iii
Registration Calendar	iv
GENERAL INFORMATION	1
Guaranteed Center Schedule	1
Admission	1
Social Security Number	1
Required Tests	2
Advisement	2
Required Physical Examinations	2
Registration	3
New Students	3
Re-Entering Students	3
Current Students, Edwardsville Campus	3
Current Students, Carbondale Campus	4
Payment of Fees	4
Fees for a Regular Quarter	4
Late Registration Fee	5
Changing Fee Status	5
Academic Load	5
Prerequisites	6
Auditing of Courses	6
Registering for and Dropping Courses	6
Withdrawal from School	7
Cancellation of Registration	7
Personal Data Changes	7
Hospitalization	7
SCHEDULE OF CLASSES	9
Explanation of the Schedule	9
Final Examinations	10
For More Information	10
Winter Classes	13

University Calendar

<i>FALL, 1969</i>	New Student Week	Sunday–Tuesday, September 21–23
	Quarter Begins	Wednesday, September 24 (Classes 4:30 P.M. or later)
	Thanksgiving Vacation	Tuesday, 10 P.M.– Monday, 8 A.M., November 25–December 1
	Final Examinations	Monday–Saturday, December 15–20
<i>WINTER, 1970</i>	Quarter Begins	Monday, January 5 (Classes 4:30 P.M. or later)
	Final Examinations	Monday–Saturday, March 16–21
<i>SPRING, 1970</i>	Quarter Begins	Monday, March 30 (Classes 4:30 P.M. or later)
	Memorial Day Holiday	Friday, May 29
	Final Examinations	Monday–Saturday, June 8–13
	Commencement (Carbondale)	Friday, June 12
	Commencement (Edwardsville)	Saturday, June 13

Registration Calendar, Winter, 1970

EDWARDSVILLE CAMPUS

October 6–January 5.

General Studies Advisement, by appointment (call General Studies Office.)

December 8–13.

Open registration. Mon.–Fri. 8:30 A.M.–12:00 noon, 1:00–4:00 P.M.; Sat. 8:30–11:30 A.M.

December 29–30.

Open registration. 8:30 A.M.–12:00 noon, 1:00–6:30 P.M.

December 31.

Open registration. 8:30–11:30 A.M.

January 5.

Central registration. 8:30 A.M.–6:30 P.M.

ALTON CENTER

Registration will be held in the Student Union.

December 20.

Open registration. 9:00 A.M.–3:00 P.M.

ALL LOCATIONS

December 29.

First day for program changes.

January 5.

Evening classes (4:30 P.M. or later) begin.

January 6.

Day classes begin.

January 12.

Last day to add a class.

January 19.

Last day to be eligible for a refund of fees.

February 2.

Last day to withdraw from a class without receiving a grade.

March 2.

Last day to withdraw from school or a class.

1 / General Information

THIS BULLETIN contains the schedule of classes to be offered in the late afternoon, evening, or on Saturday for the winter quarter of the 1969-70 school year. It also provides information relative to advisement and registration, fees, and allied information.

The Edwardsville Campus provides a full schedule of class offerings for day and evening students. Freshman and sophomore courses are scheduled for day and evening students at the Alton Center.

Guaranteed Center Schedule

A Guaranteed Schedule for the Alton Center has been established. Certain courses and sections at the Center are guaranteed on schedules extending through the fall, winter, and spring quarters. These classes will not be cancelled; they are coordinated to offer a variety of full-time academic programs for the incoming freshman as a day student, and they permit efficient progress for the new freshman evening student.

Classes at the Alton Center marked with a + in the schedule are part of this program. For details concerning the full year's schedule, see the separate brochure for the Alton Center.

Admission

Inquiries concerning admission to Southern Illinois University should be directed to the Admissions Office at Edwardsville. Applications for admission are accepted at any time during the calendar year but should be initiated at least 30 days prior to the start of the quarter which the student plans to attend.

A student must be officially admitted to the University before registration for classes will be permitted. Students who have not completed the admission requirements by the first day of the quarter will not be permitted to register. A student, to be permitted to attend classes at Southern Illinois University, must have completed registration, which includes admission, advisement, sectioning, and payment of fees.

Social Security Number

Each student seeking admission to the University will need to present a social security number for identification purposes. Any local social security office can provide assistance in obtaining a number or replacing a lost card.

At Alton the social security office is at 1623 Washington Street; at East St. Louis the office is at 435 Missouri Avenue; at Edwardsville the Illinois State Employment Office, 111 West Vandalia, provides social security information.

Required Tests

Each student entering Southern Illinois University directly from high school is required to furnish to the University scores on the test battery administered by the American College Testing Program (A.C.T.). These tests are given at regional test centers throughout the United States in October, December, February, May, and August. Information and application blanks are normally available through the high school guidance director or principal, or may be obtained by writing directly to: American College Testing Program, Box 168, Iowa City, Iowa.

A student who finds it impossible to take the A.C.T. tests may have scores from the College Entrance Examination Board (C.E.E.B.) submitted. The specific scores, which must be submitted if the C.E.E.B. tests are submitted, are Scholastic Aptitude Test, English Composition Test, and Mathematics (Intermediate) Test. In order to have identical test data, a student who submits C.E.E.B. test data will be required to submit scores from the A.C.T. no later than one month after registration.

Transfer students are required to furnish A.C.T. scores to the Student Counseling and Testing Center. (A transcript of these scores is available by sending one dollar and a written request to the American College Testing Program in Iowa City.) If the scores are on file at the student's former school, a request should be made for their forwarding. Test scores are not normally sent with a person's transcript of grades and must be requested separately from the appropriate office at the former school. If the A.C.T. tests have not been taken, arrangements to do so should be made.

Advisement

The advisement system requires all new students to have initial advisement through the General Studies Advisement Office. An office is maintained at the Alton Center for the convenience of the student. Freshmen and sophomores will continue to be advised each quarter prior to registration. Following the student's declaring a major (between reaching 64 and 96 hours of credit), the student is assigned to an adviser in his concentration area. Each student is required to declare a concentration upon achieving 96 hours of credit. Probationary students are also required to receive advisement prior to registration.

Graduate students, both classified and unclassified, must have their schedule approved at the Graduate Office before registering.

Students with a declared major in the Education Division must receive advisement from the Division office prior to registering.

All students should arrange to have advisement early to be sure their schedules will be approved before their registration.

Required Physical Examinations

Each new student desiring to enroll at Southern Illinois University is required to have a physical examination completed prior to his initial registration for classes. A special medical form is provided which is to be completed by the student and his personal physician and returned to the University Health Service.

Registration

Students may register at Edwardsville for classes at any location (see Edwardsville Registration Calendar, p. iv). Students wishing classes at the Alton Center, or at the Center and at Edwardsville, may register at the Alton Center during the period listed on the Registration Calendar. All General Studies students are required to have approval of their schedule by the General Studies Advisement Office.

Each classified graduate student must have his schedule approved by his adviser and the Dean of the Graduate School before registering for classes at the Enrollment Center. Unclassified graduate students need only the approval of the Dean of the Graduate School. Special cards for this purpose are available at the Graduate Office, 2202 General Office Building.

During the registration process the student goes to the enrollment office where the assignment is made to specific sections of the courses he is to take.

New Students

Students entering the University for the first time are permitted to register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admissions.

Dates for new undergraduate students, freshmen and transfer, will be selective ones in which the students are asked to come to the campus on specific registration dates as determined by the University. Students should not expect to be advised and registered on the same date they are admitted. Appointments for registration will be mailed from the Registrar's Office.

New graduate students after advisement may register during the registration period as shown on the Registration Calendar on page iv. Arrangements should be cleared with the Graduate School to assure that the appropriate adviser will be available before coming to the campus.

Re-Entering Students

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to register during the periods outlined in the Registration Calendar. Readmission must be completed prior to registration.

Current Students, Edwardsville Campus

For admittance to registration students previously enrolled must present their Southern Illinois University ID cards. No one will be permitted to register without an ID card. Each student currently registered in the University will be continued in his present course of study unless a change of concentration is made. A change of concentration is initiated with the chief academic adviser. The change should be made at the time of advisement; the registrar's copy of the change form should accompany the student's registration. A change of concentration made after a registration has been processed will not be reflected in the student's record until the next registration.

Upperclass students who have declared a concentration and who are currently registered in the University may be self-advised for registration purposes. This does not apply to Business Division or Education Division students. Academic advisement is available and is very desirable. The student should prepare his desired program of classes at each registration period and process through the sectioning area of the enrollment office in accordance with the time of his appointment in order to best achieve the desired schedule of classes and time periods.

Current Students, Carbondale Campus

A student currently enrolled in and attending classes on the Carbondale Campus who desires to register on the Edwardsville Campus will initiate his registration at the sectioning area of the enrollment center in Edwardsville in accordance with the registration calendar except that he may register on the first day of the quarter. Each student will complete the intra-university transfer data form to secure information necessary for the Edwardsville data processing center preparation of registration materials. The student who registers on the first day of the quarter should present his most recent grade report to confirm scholastic eligibility to register.

For the purpose of advisement, the student may wish to have a copy of his transcript sent to the Edwardsville Campus prior to registration.

Payment of Fees

All fees are payable at the time of registration. Upon payment of fees, the fee statement and receipt card will be stamped by the Business Office and returned to the student as a fee receipt. The card should be carried at all times. It serves as official authorization to attend classes as scheduled and must be presented to obtain books and activity cards and to process program changes.

Students unable to pay fees at the time of registration may secure short-term loans from the Student Work and Financial Assistance Office. This must be done before registering.

Fees for a Regular Quarter

The fee schedule is as follows: *

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident	\$22.00	\$45.00	\$67.00
Tuition Fee—Out of State Resident	(69.00)	(137.00)	(206.00)
Student Welfare and Recreation			
Building Trust Fund Fee	5.00	10.00	15.00
Book Rental Fee	3.00	6.00	8.00
Student Activity Fee	3.50	7.00	10.50
University Center Fee	5.00	5.00	5.00
Athletic Fund Fee	3.00	6.50	10.00
<i>Total</i> —Illinois Resident	\$41.50	\$79.50	\$115.50
<i>Total</i> —Out of State Resident	(88.50)	(171.50)	(254.50)

* Fees are subject to change whenever conditions make changes necessary.

Graduate students do not rent their textbooks and do not pay the book rental fee. They purchase their books.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status. Prior to registration this student will go to the Student Work and Financial Assistance Office to secure certification.

Late Registration Fee

The first day of a quarter is considered the last day of the regular registration period. Registrations thereafter, including those for classes "to be arranged" are considered late registrations and are assessed a late registration fee of \$5.00.

Changing Fee Status

Students making program changes which result in their changing from one fee status to a higher fee status will be assessed additional tuition and fees. Students changing from a higher fee status to a lower fee status may apply for a refund provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University are eligible for a refund. This is usually during the first ten days. For dates refer to the Registration Calendar on page iv.

Academic Load

The normal class load is 16 quarter hours for undergraduate students and 12 quarter hours for graduate students. The maximum load for both is 18 hours. A student with a 4.25 average or above for the preceding quarter may be allowed by written permission of the chief academic adviser or by the dean of his division to take as many as 21 hours. In no case may a student carry or be credited with more than 21 hours in any quarter. A student on probation may not take more than 14 quarter hours.

A person should not register for more than 8 hours if he is employed full time.

The Selective Service System requires a minimum of 12 hours for an undergraduate and 8 hours for a graduate to qualify for a student deferment. There is a further requirement that he complete 48 hours each year.

The National Defense Education Act requires a minimum of 12 hours to qualify for a student loan.

For students receiving benefits under the "GI Bill" (P.L. 358) the following regulations apply:

	<i>Undergraduate</i>	<i>Graduate</i>
Full benefits	14 or more hrs.	12 or more hrs.
¾ benefits	10-13 hrs.	9-11 hrs.
½ benefits	7-9 hrs.	6-8 hrs.

Prerequisites

Students are responsible for checking course prerequisites in the undergraduate and graduate catalogs and in this class schedule. Those who do not have specific prerequisites for a course may register for it only if they have had a comparable course or have written consent of the instructor.

Auditing of Courses

A student may register for courses in an "audit" status. He receives no letter grade and no credit for such courses. An auditor's registration card must be marked accordingly. He pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter.

Registering for and Dropping Courses

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program adjustment be approved permitting registration in that class. A student is officially registered only for those courses and sections appearing on his registration cards. Changes can be made only after fees are paid and must be made through an official program change at the Enrollment Center.

A student desiring to make a program change must secure approval of his adviser. He will then go to the Enrollment Center. (A student at Alton may initiate his request to drop a course by going to the General Office.) He is required to present his fee receipt program card and must complete the following procedure. (1) After having been cleared with the Enrollment Center, program changes for which a program change fee is assessed must be presented to the Business Office for payment. (2) The student immediately returns the program change to the Enrollment Center in the Registrar's Office for final processing. (3) A student has not completed his program change until he presents it to the Enrollment Center. **NO CHANGE IS OFFICIAL UNTIL THE PRECEDING PROCEDURE IS COMPLETED.**

A student who finds it necessary to make an adjustment to his program by adding or dropping a course may do so during normal office hours at the Edwardsville Enrollment Office. (No changes will be made on the first day of the quarter.) A program adjustment must be made to drop or add a course. A student may not drop a course merely by stopping attendance. Failure to officially drop a course may result in academic penalty.

Withdrawal from School

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the Registration Calendar in this bulletin for the specific dates concerning withdrawal and refunding of fees.

A student who registers and then finds that he cannot attend school must also officially withdraw from school. He may do this by asking the Student Affairs Office to initiate official withdrawal action for him. This must be done by the end of the first two weeks if he expects to get a refund.

Cancellation of Registration

A registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Director of Student Affairs.

Personal Data Changes

Changes in personal data should be reported promptly. Types of change and method of reporting are:

1. ADDRESS CHANGES. Should be reported immediately either at the time of registration or at the Registrar's Office.
2. NAME CHANGES. Should be made at the Registrar's Office. Verification is required.
3. MARITAL STATUS CHANGES. Should be made at the Registrar's Office.
4. LEGAL RESIDENCE CHANGES (whether an Illinois or out-of-state resident.) Must be requested by completion of the *Application to be Classified an Illinois Resident* form in the Registrar's Office. Before the change is made the student must have met the regulations governing residency status as established by the Board of Trustees.

Hospitalization

Health and hospitalization insurance is offered to all students. Cost of the insurance is \$9.00 per quarter for single and \$28.20 per quarter for family plan. This insurance is available at the time of registration.

2 / Schedule of Classes

Except for the Guaranteed Center Schedule, the University reserves the right to cancel, combine, divide, or limit enrollment in any class or classes; to change the date, time, or place of meeting; to make any other revisions in these course offerings which may become desirable or necessary; and to do so without notice and without incurring obligation.

Explanation of the Schedule

Courses are listed numerically within each subject-matter area. The entry for each course is arranged as follows:

First Line: The course's identification number is followed by the number of quarter hours of credit and the descriptive title. The prerequisites, if any, appear in brackets after the title or on the line immediately below the title.

Section-Number Lines: The first column lists the section numbers. Those sections offered at Edwardsville always begin with 0; those sections offered at Alton always begin with 2; those sections offered at East St. Louis always begin with 4. Following each section number is the time the class begins, between 8:00 A.M. and 4:20 P.M. for daytime classes. An ending time is listed only if the class period is longer than 50 minutes. The section number of each evening class has the letter E prefixed. A + indicates a section which is part of the Guaranteed Center Schedule and is not subject to cancellation. The days when the class meets, the place where it meets, and the instructor's last name complete the entry.

The course numbering system is as follows:

000-099 Courses not properly falling in the following categories

100-199 For freshmen

200-299 For sophomores

300-399 For juniors and seniors

400-499 For seniors and graduate students

500-600 For graduate students only

Students registering for courses listed as TBA (to be arranged) should consult the instructor indicated, or the faculty office if no instructor is listed, to determine time and place of meeting.

The following list of building abbreviations will help in the location of classrooms.

ANA	—Annex A—Alton
CB	—Communications Bldg.—Edwardsville
ESL	—East St. Louis Center
Gym	—Gymnasium—Alton
LB	—Lovejoy Memorial Library—Edwardsville
PB	—John Mason Peck General Classroom Building—Edwardsville

SCI —Science Building—Alton
SL —Science Laboratory Building—Edwardsville
UC —University Center—Edwardsville
Wagner —Wagner Building—Edwardsville
Pract Ctr—Practicum Center—Edwardsville

Final Examinations

For late afternoon, evening, and Saturday classes, final examinations are given during regular class sessions.

For More Information

For additional information concerning admission, fees, etc., address

Director of Admissions	or telephone
Southern Illinois University	692-2720
Edwardsville, Illinois 62025	Edwardsville

To obtain a complete schedule of classes offered on the Edwardsville Campus (including the Alton and East St. Louis Centers) for winter, 1970, address

Central Publications	or telephone
Southern Illinois University	692-3650
Edwardsville, Illinois 62025	Edwardsville

Listing of Classes

101a-5	Introduction to Physical Science [Math 101 or satisfactory score on placement test] Student enrolls in lecture and one lab.	Lect C 020 021	6:30-7:50 8:00-10:00 8:00-10:00	MWF M W	SL 1105 SL 1217 SL 1217
110a-4	The Earth and Its Environment	006	6:00-8:20	T Th	SL 1215
110b-4	The Earth and Its Environment	005	6:00-8:20	M W	SL 1215 Gore
201b-4	Man's Biological Inheritance [201a] Student enrolls in lecture and one lab. Lectures will be given by CC-TV. Room assignment for lecture will be made by the Enrollment Center at the time of registration.	Lect C 005 015 035 062 063	6:30-7:20 6:30-8:15 4:30-6:20 4:30-6:20 4:30-6:20 6:30-8:20 7:30-9:20	T Th M T Th W T	TBA TBA SL 2211 SL 2211 SL 2211 SL 2211 SL 2211 Thomerson
312-3	Conservation of Natural Resources	006	6:30-7:45	T Th	PB 1410 Wallace
330-3	Weather	002	6:30-8:20	T Th	PB 0306 Scofield
331-3	Climate	006	6:30-8:20	M W	PB 0306 Thompson
350-3	Atomic Energy	001	8:30-9:45	M W	SL 1105
352-3	Radiation and Life	001	8:30-9:45	T Th	SL 2224
363a-3	Philosophy of Science (Same as GSC 363a) [Completion second-level GSA]	003	8:30-9:45	T Th	PB 0309
MAN'S SOCIAL INHERITANCE AND SOCIAL RESPONSIBILITIES (GSB)					
101b-4	Survey of Western Tradition	005	6:30-8:20	T Th	PB 0304
101c-4	Survey of Western Tradition	033 034 +202	6:30-8:20 6:30-8:20 6:30-8:20	M W T Th M W	LB 0042 LB 0042 ANA 108 Wurtz Weingartner Barnhart
103a-4	Sociology-Economics	009 010 011 201	4:30-6:20 6:30-8:20 7:30-9:20 6:30-8:20	W F T Th M W M W	PB 0304 PB 1315 PB 1312 ANA 101 Henslin

103b-4	Sociology-Economics	003	6:30-8:20	T Th	PB 1316	
201a-4	The Individual and His Cultural Environment	+201	6:30-8:20	T Th	ANA 101	Coppinger
201c-4	The Individual and His Cultural Environment	005	6:30-8:20	T Th	SL 3114	
203a-4	American Politics in the World Environment	+201	8:30-10:20	T Th	ANA 101	McHargue
203b-4	American Politics in the World Environment	003	6:30-8:20	M W	PB 1410	Clements
300a-3	History of the United States	007	6:30-7:45	M W	PB 1307	Farrar
		008	6:30-7:45	T Th	PB 1307	Branz
300b-3	History of the United States	006	6:30-7:45	T Th	PB 1306	McCurry
		007	8:30-9:45	M W	PB 1307	Sand
300c-3	History of the United States	003	6:30-7:45	M W	PB 1306	Weiss
331-3	The American Education System	001	5:30-8:20	T	PB 0303	Curry
		009	5:30-8:20	W	CB 0186	
		011	7:30-10:20	M	PB 2409	
		012	7:30-10:20	Th	PB 1312	

MAN'S INSIGHTS AND APPRECIATIONS (GSC)

151-3	Introduction to Poetry [GSD 101b]	015	8:30-9:45	T Th	PB 3422	
		+201	6:30-7:45	T Th	ANA 110	
252-4	Logic [Completion first-level GSC]	020	6:30-8:20	M W	PB 2306	Hudlin
		021	6:30-8:20	T Th	PB 2306	
253-4	Literary Masterpieces of Antiquity [151]	010	6:30-8:20	M W	PB 2411	
		201	6:30-8:20	M W	ANA 100	
254-4	Philosophical Masterpieces [Completion first-level GSC]	009	8:30-10:20	M W	PB 0314	Hudlin
335-3	Studies in Short Fiction [Completion second-level GSC]	002	6:30-7:45	T Th	PB 3102	
363a-3	Philosophy of Science (Same as GSA 363a) [Completion second-level GSC]	003	8:30-9:45	T Th	PB 0309	

101a-3	English Composition	017 +201	6:30-7:45 8:30-9:45	T Th T Th	PB 3409 ANA 100	
101b-3	English Composition [101a]	056 057 058 +204 +205 +206 +207	4:30-5:45 6:30-7:45 8:30-9:45 6:30-7:45 6:30-7:45 8:30-9:45 8:30-9:45	MW T Th T Th MW T Th MW T Th	PB 3422 PB 3422 PB 3409 ANA 110 ANA 100 ANA 110 ANA 110	
103-3	Oral Communication of Ideas	033 034	6:30-7:45 8:30-9:45	MW MW	LB 0051 LB 0051	Salden Salden
112b-5	Introduction to Mathematics [112a]	+201	6:00-8:20	T Th	SCI 002	Berardino
114a-5	College Algebra [One and one-half years algebra, one year plane geometry]	008 +202	6:00-8:20 6:00-8:20	T Th MW	PB 0302 SCI 002	
114d-4	Statistics [114a]	002	8:30-10:20	T Th	PB 2405	
123b-3	Elementary French [123a, concurrent enrollment in Fr 123b]	202	6:30-8:20	MW	SCI 003	
126b-3	Elementary German [126a, concurrent enrollment in Ger 126b]	004	6:30-7:45	T Th	PB 2409	
140b-3	Elementary Spanish [140a, concurrent enrollment in Span 140b]	004	5:30-6:45 6:30-7:45	MW MW	PB 2409 PB 2409	
HEALTH AND PHYSICAL DEVELOPMENT (GSE)						
117b-1	Folk Dance	003	4:30	T Th	LB 0033	Martin
117d-1	Beginning Contemporary Dance	001	4:30	MW	LB 0033	Martin
117e-1	Intermediate Contemporary Dance	001	4:30	MW	LB 0033	Martin

201-3	Healthful Living	008 +201	5:30-8:20 8:30-9:45	W T Th	PB 1402 ANA 108	Buddell Whitted
ACCOUNTING (ACCT)						
330-4	Managerial Cost and Budgeting [231]	001	8:30-12:20	S	PB 3303	
331-4	Principles of Income Taxation [231]	001	8:30-12:20	S	PB 2304	
351a-4	Accounting Theory and Problems I [231]	001	8:30-10:20	T Th	PB 2304	
351b-4	Accounting Theory and Problems II [351a]	002	8:30-10:20	T Th	PB 1313	
456-4	Auditing [351b, 442]	002	6:30-8:20	M W	PB 2304	
ART (ART)						
202f-3	Intermediate Studio [100a,b,c]	001	6:30-9:20	M W	SL 0225	J. Smith
300c-4	Art Education [300b]	001	5:30-8:20	M W	SL 0209	
325a,b,c-4	Studio [By permit only]	001	TBA		SL 0222	Holm
349b-3	Renaissance and Baroque Art	001	4:30-5:45	T Th	PB 0406	Jacobson
420-4	Research in Pottery [305a,b,c]	001	6:30-10:20	T Th	Wagner 192	Cannon
441-3	Studio in Drawing [12 hours of 300-level art]	001	6:30-9:20	M W	SL 0217	Davis
466-2 to 12	Studio in Art Education	001	TBA		SL 0222	Holm
483-3	Research in Art History [By permit only]	001	TBA			Hilberry
520-4	Graduate Ceramics	001	6:30-10:20	T Th	Wagner 192	Cannon
566-4	Research in Art Education	001	TBA			Holm
571-4	Readings in Art History	001	TBA			Hilberry

493-2 to 8	Research in Biology [Consent of faculty chairman]	001	TBA			
545-3	Physiology of Sense Organs [302]	001	7:00-8:20	M W	SL 2224	Ratzlaff
590-0.4	Graduate Biology Seminar	001	4:30	W	SL 3114	R. Parker
591-1 to 4	Readings in Biology [Consent of faculty chairman]	001	TBA			
593-1 to 4	Special Problems in Biology [Consent of faculty chairman]	001	TBA			
599-3 to 9	Research and Thesis [Consent of faculty chairman]	001	TBA			
BUSINESS ADMINISTRATION (B A)						
544-4	The Methodology of Business Research [Q M 510, 511; M S 580]	001	8:30-12:20	S	PB 2405	
BUSINESS EDUCATION (BS ED)						
324b-4	Advanced Shorthand and Transcription [324a]	002	6:30-8:20	M W	PB 3417	
414b-3	Organization and Administration of Cooperative Vocational Business Education Programs	001	5:30-8:20	T	PB 2412	
427-4	Records Administration	001	4:30-6:20	M W	PB 3303	
502-4	Introduction to Research in Business Education	001	8:30-10:20	T Th	PB 1306	
590-2 to 5	Readings in Business Education	001	TBA			
591-1 to 9	Individual Research in Business Education	001	TBA			
599-1 to 9	Thesis	001	TBA			

CHEMISTRY (CHEM)

111a-5	Chemical Principles and Inorganic Chemistry [High school algebra]	002	5:30-7:20	T Th	SL 2224	
			7:30-10:20	T	SL 2215	
		003	5:30-7:20	T Th	SL 2224	
			7:30-10:20	Th	SL 2215	
341b-3	Organic Chemistry [341a]	001	5:30-6:45	M W	SL 3114	
345a,b,c-2	Organic Chemistry Laboratory	004	5:30-8:20	T Th	SL 2216	
451a-3	Biochemistry [235 and 305b or 341c]	001	7:00-8:15	M W	SL 3114	
496-2 to 6	Chemical Problems [Consent of faculty chairman]	001	TBA			
549-2	Advanced Topics in Organic Chemistry	001	8:30	M W	SL 2224	
575-1	Graduate Seminar	001	5:30	W	SL 1225	
596-2	Advanced Chemical Problems	001	TBA			
597-3 to 15	Research and Thesis	001	TBA			
COUNSELOR EDUCATION (C ED)						
305-4	Educational Psychology [By permit only] Four additional sessions TBA.	004	5:30-8:20	Th	PB 2403	
420-4	Educational Statistics Four extra sessions TBA for both sections.	001	5:30-8:20	M	PB 2403	Rochester
		002	5:30-8:20	W	PB 0406	Rochester
422-4	Educational Measurements I Four extra sessions TBA.	001	5:30-8:20	T	PB 1312	King
501-4	Special Research Problems	001	TBA			
510-4	College Student Personnel Services	001	5:30-8:20	T	Pract Ctr	Moore
511-4	Educational Implications of Learning Theories	001	5:30-8:20	M	PB 0406	Williams

COUNSELOR EDUCATION (C ED)							19
515-4	Psychological Aspects of Education	001	5:30-8:20	Th	PB 1308	Mermis	
522-4	Educational Measurements II	001	5:30-8:20	T	PB 1308	McBride	
525-4	School Behavior Problems and Their Prevention	201	9:00-12:00	S	ANA 104	Meredith	
528-4	Advanced Guidance of the Individual	001	5:30-8:20	T	Pract Ctr	Mermis	
537-4	Counseling Theory and Practice I	001	5:30-8:20	M	PB 0408	Ederle	
		002	5:30-8:20	T	PB 0408	Chenault	
538-4	Counseling Theory and Practice II	001	5:30-8:20	Th	Pract Ctr	Soper	
541-4	Occupational Information and Guidance	001	5:30-8:20	W	PB 0408	Ederle	
542-4	Basic Principles of Guidance	001	5:30-8:20	M	PB 0413	King	
		002	5:30-8:20	W	Pract Ctr	Soper	
543-4	Guidance Through Groups	001	5:30-8:20	T	Pract Ctr	Combs	
		002	5:30-8:20	W	Pract Ctr	Mermis	
		003	5:30-8:20	Th	Tract 44a	Davis	
545f-4	Seminar in Guidance: Pupil Adjustment	001	5:30-8:20	M	PB 1309	Repovich	
545j-4	Seminar in Guidance: Organization and Administration	001	5:30-8:20	T	PB 0413	Davis	
562a-4	Child Development in Education	001	5:30-8:20	Th	LB 0051		
562b-4	Adolescent Development in Education	001	5:30-8:20	T	PB 2403	Repovich	
575c-4	Practicum in Secondary Guidance	001	TBA		Pract Ctr	Moore, Soper, Chenault	
ECONOMICS (ECON)							
200-4	Macroeconomics [Sophomore standing]	002	8:30-10:20	M W	PB 3316		
201-4	Microeconomics [Sophomore standing]	003	6:30-8:20	T Th	PB 3313		

300-4	The Monetary System and Economic Policy [200, 201]	002	6:30-8:20	T Th	PB 3316
310-4	Labor Problems [200, 201]	001	8:30-10:20	MW	PB 3313
340-4	Intermediate Micro Theory [201]	001	8:30-10:20	T Th	PB 2411
416-4	Money and Banking II [300]	001	6:30-8:20 6:30-8:20	M W	PB 1304 SL 2231
418-4	Economic History of Europe [200, 201]	001	4:30-6:20	MW	PB 3409
431-3	Public Finance II: State and Local [330]	001	4:30-5:45	T Th	PB 3409
467-4	Econometrics I [Consent of instructor] Saturday additional hours TBA.	001	6:30-9:20	M	PB 3314
501-1 to 5	Economic Readings [Consent of instructor]	001	TBA		
504-4	Economic Analysis [MBA students only]	001	6:30-10:20	W	PB 3303
512-4	Labor Economics [310 or 411, or consent of instructor]	001	4:30-6:20	MW	PB 3317
543-4	Seminar in Economic Policy [340 and 441, or consent of instructor] Saturday additional hours TBA.	001	6:30-9:20	T	PB 3314
566-4	Mathematical Economics II [340 and 465, or consent of instructor] Saturday additional hours TBA.	001	6:30-9:20	W	PB 3314
582-4	Economic Behavior [340 or consent of instructor]	001	4:30-6:20	T Th	PB 3317
599-1 to 9	Thesis [Consent of instructor]	001	TBA		
EDUCATION ADMINISTRATION (ED AD)					
355-4	Philosophy of Education [C Ed 305, consent of undergraduate teacher education advisement office]	007	9:00-12:40	S	PB 1307

420-4	Legal Basis of American Education Four additional sessions TBA.	001	5:30-8:20	T	PB 0307	Ackerlund
434-4	Administrator's Workshop Four additional sessions TBA.	001	5:30-8:20	M	PB 0307	Andree
456-4	School Supervision Four additional sessions TBA.	001	5:30-8:20	M	PB 0309	Helsel
480-4	Backgrounds of Urban Education Four additional sessions TBA.	001	5:30-8:20	Th	PB 1313	Burnett
500-4	Research Methods	001	5:30-8:20	M	PB 2406	Hildebrand
		002	5:30-8:20	T	PB 2406	Popp
		003	5:30-8:20	W	PB 2406	Richards
		004	5:30-8:20	Th	PB 2406	Popp
501-4	Seminar in Educational Administration	001	5:30-8:20	W	PB 1309	Helsel
502-4	Seminar in Comparative Education	001	5:30-8:20	Th	PB 2412	Wantling
503-4	Seminar in Philosophy of Education	001	5:30-8:20	W	PB 1304	Hofmann
511b-4	Internship Practicum [Consent of faculty chairman]	001	TBA			
524-4	School Administration	001	5:30-8:20	W	PB 0307	Krchniak
525-4	Personnel Administration	001	5:30-8:20	Th	PB 0307	Ackerlund
533-4	School Buildings	001	5:30-8:20	T	PB 0309	Andree
534b-4	School Business Administration	001	5:30-8:20	W	PB 0309	Wilkins
551-4	Community Junior College Curriculum	001	5:30-8:20	M	PB 2413	Boss
554-4	Contrasting Philosophies of Education	001	5:30-8:20	T	PB 1309	Villemain
556-4	Seminar in Educational Supervision	001	5:30-8:20	Th	PB 1309	Wheat
560-4	Curriculum [Consent of instructor and Nextep]	001	TBA			
		002	5:30-8:20	T	LB 0044	Harmin

565-4	The Community Junior College	001	5:30-8:20	Th	PB 1302	Goodwin
575a-k-4	Individual Research [Consent of instructor and faculty chairman] For research areas see Graduate Catalog.	001	TBA			
596-5 to 9	Independent Investigation [Consent of faculty chairman]	001	TBA			
EDUCATION ELEMENTARY (ED EL)						
314-4	Elementary School Methods [Ed Ad 355, consent of undergraduate teacher education advisement office] Additional two-hour laboratory in a public school TBA. Four extra sessions TBA.	003	5:30-8:20	W	PB 3102	Carpenter
316-4	Kindergarten-Primary Methods and Curriculum [Ed Ad 355, consent of undergraduate teacher education advisement office] Additional two-hour laboratory in a public school TBA.	001	9:00-11:40	S	PB 0411	Kuenzli
337-4	Reading in the Elementary Schools [314, C Ed 305, Ed Ad 355] Four extra sessions TBA.	003	5:30-8:20	Th	PB 0408	Starr
413-4	Children's Literature [C Ed 305] Four extra sessions TBA.	001 002	5:30-8:20 1:30-3:20 1:30-3:20	W W F	PB 3302 PB 2409 PB 3303	Darnell
415-4	Improvement of Instruction in Arithmetic in the Elementary School Four extra sessions TBA.	002	5:30-8:20	M	PB 3302	Steinbrook
442-4	Science for the Elementary Teacher [314]	001	5:30-8:20	Th	PB 0411	Bliss
480-4	Backgrounds of Urban Education Four extra sessions TBA.	001	5:30-8:20	Th	PB 1313	Burnett
505-4	Improvement of Reading Instruction	001 002	5:30-8:20 5:30-8:20	M W	PB 0403 PB 0403	Turner Bear

507-2 to 4 Readings in Reading [505, consent of instructor]				001	TBA	EDUCATION ELEMENTARY (ED EL)				23
509.4 to 8	Practicum in Reading [521c, consent of instructor]	001	TBA							
513-4	Materials and Methods for the Assessment of the Disabled Reader [505]	001	5:30-8:20	W	PB 0312	Richardson				
514-4	Organization and Administration of Reading Programs [561]	001	5:30-8:20	T	PB 3302	Richardson				
521a-4	Diagnosis and Correction of Reading Disabilities [513, consent of instructor] Student enrolls for lecture and one clinic.	Lect	6:00-7:50	Th	PB 0403	Bear				
		Clinic 1	8:00-9:30	S	PB 0406					
		Clinic 2	9:30-11:00	S	PB 0406					
		Clinic 3	11:00-12:30	S	PB 0406					
521b-4	Diagnosis and Correction of Reading Disabilities [521a, consent of instructor] Student enrolls for lecture and one clinic.	Lect	5:30-7:20	T	PB 0403	Turner				
		Clinic 1	8:00-9:30	S	PB 0403					
		Clinic 2	9:30-11:00	S	PB 0403					
		Clinic 3	11:00-12:30	S	PB 0403					
542-4	Language Arts in the Elementary School	001	5:30-8:20	Th	PB 3302	Darnell				
543-4	Teaching the Social Studies in the Elementary School	001	5:30-8:20	M	PB 0312	Carpenter				
553-4 to 8	Practicum in Urban Education	001	TBA			Burnett				
561-4	The Elementary School Curriculum	001	9:30-11:40	S	PB 0314	Comer				
567b-4	Teaching Competencies and Their Application	001	TBA			Harmin				
		002	5:30-8:20	T	GO 2225					
575a-k-2 to 4	Individual Research [Consent of instructor and faculty chairman] For research areas see Graduate Catalog	001	TBA							
596-5 to 9	Independent Investigation [Consent of instructor]	001	TBA							

EDUCATION SECONDARY (ED S)

315-4	High School Methods [Ed Ad 355, consent of teacher education advisement office and instructor.] Recommended during quarter preceding student teaching. Laboratory assignments TBA with instructor.	005 5:30-9:00 006 7:00-10:20	Th Th	PB 0413 PB 0413	Wilson Wilson
480-4	Backgrounds of Urban Education Four extra sessions TBA.	001 5:30-8:20	Th	PB 1313	Burnett
505-4	Improvement of Reading Instruction	001 5:30-8:20 002 5:30-8:20	M W	PB 0403 PB 0403	Turner Bear
507-2 to 4	Readings in Reading [505, consent of instructor]	001 TBA			
508-4	Seminar: Trends in Selected Areas in Secondary Schools	001 5:30-8:20	W	PB 1313	Schnabel
509-4 to 8	Practicum in Reading [521c, consent of instructor]	001 TBA			
513-4	Materials and Methods for the Assessment of the Disabled Reader [505, consent of instructor]	001 5:30-8:20	W	PB 0312	Richardson
521a-4	Diagnosis and Correction of Reading Disabilities [513, consent of instructor] Student enrolls for lecture and one clinic.	Lect 6:00-7:50 Clinic 1 8:00-9:30 Clinic 2 9:30-11:00 Clinic 3 11:00-12:30	Th S S S	PB 0403 PB 0406 PB 0406 PB 0406	Bear
521b-4	Diagnosis and Correction of Reading Disabilities [521a, consent of instructor] Student enrolls for lecture and one clinic.	Lect 5:30-7:20 Clinic 1 8:00-9:30 Clinic 2 9:30-11:00 Clinic 3 11:00-12:30	T S S S	PB 0403 PB 0403 PB 0403 PB 0403	Turner
553-4	Practicum in Urban Education [Consent of instructor]	001 TBA			Burnett

562-4	The High School Curriculum	001	5:30-8:20	W	PB 2413	
564-4	High School Principals	001	5:30-8:20	Th	PB 0309	Andree
567b-4	Teaching Competencies and Their Applications [Consent of instructor and Nextep]	001 002	TBA 5:30-8:20	T	GO 2225	Harmin
575aj-4	Individual Research [Consent of faculty chairman] For research areas see Graduate Catalog	001	TBA			
591-4	Current Problems in Secondary Education	001	9:00-11:40	S	PB 1308	
596-5 to 9	Independent Investigation	001	TBA			
ENGINEERING (ENGR)						
101b-3	Engineering Graphics [101a]	003	6:30-9:20	M W	SL 1216	Bishop
200b-3	Circuit Analysis [200a]	002	5:00-6:20	T Th	SL 0226	McKay
201b-1	Circuit Analysis Laboratory	003 004	6:30-9:20 6:30-9:20	T Th	SL 1212 SL 1212	McKay Hord
395-2 to 8	Readings in Engineering [Junior or senior standing]	001	TBA			
485-4	Communication Theory [410a]	001	5:00-6:50	T Th	SL 1228	Wallace
ENGLISH (ENG)						
300-4	Principles of English Grammar [Completion second-level GSC]	002	6:30-8:20	M W	PB 0303	Funkhous
302b-4	Survey of English Literature: 1550-1750 [Completion second-level GSC]	003	8:30-10:20	T Th	PB 0408	
309a-4	Survey of American Literature to 1860 [Completion second-level GSC]	002	8:30-10:20	M W	PB 0309	
309b-4	Survey of American Literature: Post 1860 [Completion second-level GSC]	002	6:30-8:20	T Th	PB 2411	

391-3	Usage in Spoken and Written English [Completion second-level GSC]	003	8:30-9:45	M W	PB 2411	
400-4	Introduction to English Linguistics [Completion second-level GSC, junior standing]	001	8:30-10:20	T Th	PB 2406	Wood
404c-4	Middle English Literature: Canterbury Tales [Completion second-level GSC, junior standing]	001	4:30-6:20	M W	PB 1307	Drake
447-4	American Humor and Satire [Completion second-level GSC, junior standing]	001	6:30-8:20	T Th	PB 2413	Austin
485-4	Problems in Teaching English [Completion second-level GSC, junior standing]	001	4:30-6:20	M W	PB 2411	Frogner, Steinman
490-4	Advanced Composition [Completion second-level GSC, junior standing]	001	4:30-6:20	T Th	PB 1307	Hobbie
499-2 to 4	Readings in English [Completion second-level GSC, junior standing, consent of adviser]	001	TBA			
500-4	Materials and Methods of Research in English [Graduate standing]	001	8:30-10:20	M W	PB 3422	Hoyenga
502-4	Beowulf [Graduate standing]	001	6:30-8:20	T Th	PB 2414	Wood
513-4	Studies in 17th Century Literature: The Pastoral [Graduate standing]	001	8:30-10:20	T Th	PB 3317	Revard
537-4	Studies in 20th Century American Writers: T. S. Eliot [Graduate standing]	001	4:30-6:20	M W	PB 0302	Joost
538-4	Problems in American Literature [Graduate standing]	001	9:00-12:20	S	PB 3409	McDermott
598-1 to 4	Independent Review of English and American Literature [Consent of adviser, by permit only]	001	TBA			
599-2 to 4	Thesis [Consent of adviser, by permit only]	001	TBA			

424-4	Financial Institutions [420]	002	8:30-10:20	T Th	PB 3316
523-4	Financial Management [520]	001	6:30-10:20	T	PB 3303

FOREIGN LANGUAGES (F L)

399-3 to 6 Readings [201c, one quarter 220, consent of chairman, by permit only]

FRENCH (FREN)

123b-1 Elementary French Conversation
[Concurrent enrollment in GSD 123b]

499-2 to 5 Readings in French [201c, one quarter 220, consent of chairman, by permit only]

507-3 A Study of Romanticism [Graduate standing]

GERMAN (GER)

126b-1 German Conversation [Concurrent enrollment in GSD 126b]

413-3 German Linguistics [201c, one quarter 220 or graduate standing or consent of chairman]

499-2 to 5 Readings in German [201c, one quarter 220, consent of chairman, by permit only]

ITALIAN (ITAL)

499-3 Readings in Italian [201c, one quarter 220, consent of chairman, by permit only]

RUSSIAN (RUSS)

499-2 to 5 Readings in Russian [201c, one quarter 220, consent of chairman, by permit only]

SPANISH (SPAN)

140b-1	Spanish Conversation [Concurrent enrollment in GSD 140b]	004	7:55-8:20	M W	PB 2410	
499-2 to 5	Readings in Spanish [201c, one quarter 220, consent of chairman, by permit only]	001	TBA			
501-2	Seminar on a Selected Spanish Author [Graduate standing]	001	5:30	M W	PB 0303	Goode
506-3	The Renaissance [Graduate standing]	001	6:30-7:45	M W	PB 3409	Osiek
GENERAL BUSINESS ADMINISTRATION (GBA)						
140-4	Introduction to Business	006	6:30-8:20	M	PB 1315	
			6:30-7:20	W	PB 1315	
			7:30-8:20	W	PB 1315	
		007	6:30-8:20	M	PB 1315	
			6:30-7:20	W	PB 1315	
			7:30-8:20	W	PB 2409	
		008	6:30-8:20	M	PB 1315	
			6:30-7:20	W	PB 1315	
			7:30-8:20	W	PB 2403	
340-4	Organizational Behavior and Decision Making [140, GSB 103a, GSB 201a,c]	001	8:30-10:20	M W	PB 3305	
440-4	The Legal Environment of Business [140]	002	8:30-10:20	M W	PB 3315	
441-4	Business Policy [341, senior standing]	002	6:30-8:20	M W	PB 3315	
GEOGRAPHY (GEOG)						
410b-4	Quantitative Methods in Geography (Same as Govt 410b and Soc 410b)	001	7:30-9:20	T Th	PB 0406	Guffy
417-3	Air Photo Interpretation [310a or consent of instructor]	001	8:30-11:30	S	SL 1216	Collier
426b-4	Photogrammetry	001	4:00-6:00 8:30-11:30	W S	A.C.I.C.	Moellman

461a-4	Regional Geography of Anglo-America	001	0:30-0:20	M W	D 1412	Dance
470a-4	Urban Planning: History of Planning [308]	001	6:30-8:20	M W	Tract 14B	Lossau
470b-4	Urban Planning: Codes and Ordinances	001	6:30-8:20	T Th	PB 1412	Johnsen
520-4	Seminar in Physical Geography	001	4:30	MTW	SL 1215	Gore
530-2 to 4	Independent Studies in Geography	001	TBA		PB 1220	Kazeck
572a-4	Quantitative Planning Research Additional hours TBA.	001	9:30-11:20	S	Tract 14B	Lossau
574c-2	Urban Planning Design Studio	002	6:30-8:20	Th	Tract 14B	Roth
599-2 to 8	Thesis	001	TBA		PB 1220	Kazeck
GOVERNMENT (GOVT)						
321-1 to 6	Readings in Government	001	TBA			
330-2	Illinois Government	001	5:30-7:20	W	PB 2403	Rendleman
410b-4	Quantitative Methods in Political Science (Same as Geog 410b and Soc 410b)	001	7:30-9:20	T Th	PB 0406	Lee
521-1 to 4	Readings in Government	001	TBA			
545-4	Seminar in American Politics	001	6:30-10:20	W	PB 3317	Goodman
575-4	Seminar in International Relations	001	6:30-10:20	M	PB 3317	Stahnke
HEALTH EDUCATION (H ED)						
313s-4	Introduction to Safety Education	001	5:30-9:20	W	PB 2412	Klein
HISTORY (HIST)						
309-4	The Negro in America	002	6:30-8:20	M W	PB 0314	
332b-3	Medieval History [Sophomore standing]	001	8:30-9:45	M W	PB 0307	Wurtz
GEOGRAPHY (GEOG)						29

401b-4	History of the South	001	6:30-8:20	M W	PB 1308	Nordhauser
410-2 to 5	Special Readings in History [Consent of chairman]	001	TBA			
452-3	Historical Research and Thesis Writing [History concentrations, junior standing]	001 003	9:00-11:40 6:30-7:45	S T Th	PB 2414 PB 3317	Riddleberger Kimball
500-4	History Seminar [Graduate standing] Additional hours TBA.	001	5:00	W	PB 1306	Kimball
510-2 to 5	Readings in History [Consent of chairman]	001	TBA			
599-1 to 9	Thesis [Consent of chairman]	001	TBA			
HUMANITIES (HUM)						
302-3 to 4	Humanities Honors [By permit only] The 20th Century European Novel	002	6:30-7:45	T Th	PB 0233	Zanger
INSTRUCTIONAL MATERIALS (I M)						
403-4	School Library Functions and Management Lab hours TBA.	001	5:30-8:20	M	PB 1302	Mundt
406-4	Library Materials for Adolescents Lab hours TBA.	001	5:30-8:20	T	PB 1302	
417-4	Audio-Visual Methods in Education Student enrolls for lecture section, one quiz section, and one hour per week self-instruction.	Lect B 006 011 017 018 019 023 024	5:30-7:20 4:30 5:30 4:30 7:50 7:30 5:30 4:30	W M T W W W Th Th	PB 1316 SL 2231 SL 2231 SL 2231 PB 1306 PB 1316 SL 2231 SL 2231	Thota
422-4	Book Selection	001	5:30-8:20	W	PB 1302	
445-4	Preparation of Teacher-Made Audio-Visual Materials	001 002 003 004	5:30-8:20 5:30-8:20 5:30-8:20 6:00-11:40	M T Th S	PB 0409 PB 0409 PB 0409 PB 0409	Joyner Madison Gilligan Gilligan

457-4	Radio and Television in the Classroom	001	5:30-8:20	T	PB 0411	Gilligan
470-4	Programmed Instruction	001	5:30-8:20	W	PB 0409	Mundt
510-4	Mass Communication in Education	001	5:30-8:20	M	PB 0411	Mitchell
514-4	Survey of Research and Development in Instructional Materials	001	5:30-8:20	W	PB 0411	Mitchell
546-4	Integration of Audio-Visual Materials in the Classroom	001	5:30-8:20	Th	PB 1414	Mitchell
554-4	Administration of an Instructional Materials Center	001	5:30-8:20	T	PB 1414	Mundt
576-2 to 8	Problems in Instructional Materials	001	TBA			Madison
JOURNALISM (JRN L)						
402-2	Journalism Practicum	001	TBA			
MANAGEMENT SCIENCE (M S)						
310-4	Operations Research for Managers [211]	002	6:30-8:20	M W	PB 3313	
380-4	Management Operating Systems I [Acct 231]	001	6:30-8:20	T Th	PB 2405	
489-1 to 4	Independent Study in Management Science [Consent of instructor]	001	TBA			
MARKETING (MKTG)						
370-4	Consumer Behavior [GSB 103a,b, GSB 201c, Econ 201]	001	6:30-8:20	M W	PB 2405	
452-4	Physical Distribution Management [470, QM 310]	002	8:30-10:20	T Th	PB 3315	
472-4	Sales Policy and Management [470]	002	6:30-8:20	T Th	PB 3404	
479-4	Independent Study in Marketing [Consent of chairman]	001	TBA			
573-4	Marketing Policies [570]	001	6:30-10:20	Th	PB 3303	

MATHEMATICS (MATH)

101-4	Fundamental Mathematics	006	6:30-8:20	MW	PB 0304	
150a-4	Elementary Calculus and Analytic Geometry [GSD 114c]	003	6:30-8:20	MW	PB 0302	
150b-4	Elementary Calculus and Analytic Geometry [150a]	005	6:30-8:20	MW	SL 1225	Isaacson
225-4	Programming for Digital Computers [GSD 114a]	006	6:30-8:20	TTh	CB 0186	Wallace
321-4	Elementary Matrix Algebra [150b]	001	6:30-8:20	TTh	SL 1225	Kessler
395-2 to 12	Readings in Mathematics [12 hours of 300-400 level math, 4.0 average, consent of instructor]	001	TBA			
405a-4	Applied Mathematics for the Physical Sciences II [305]	002	8:00-9:50	TTh	SL 1224	Hattermer
410b-4	Statistical Analysis [410a]	001	4:30-6:20	TTh	SL 1225	Clemans
421a-3	Linear Algebra [321]	001	6:30-7:45	TTh	SL 1224	Poynor
446b-3	Structure of Mathematics	001	6:30-7:45	TTh	SL 1220	Holden
455b-3	Advanced Mathematics for the Physical Sciences [455a]	001	5:00-6:15	TTh	SL 1224	Kurth
458b-3	Finite Mathematics [458a]	001	6:30-7:45	TTh	SL 1221	Sturley
472b-3	Operations Research [472a]	001	8:30-9:45	TTh	CB 0186	Wallace
473a-3	Computer Science [225, 250]	001	8:00-9:15	MW	SL 1224	
474a-3	Introduction to Digital Systems Design [225, 250]	001	6:30-7:45	MW	SL 1221	
475b-3	Numerical Analysis [475a]	001	5:00-6:15	MW	SL 1224	Isaacson

Introduction to Mathematical Statistics [350]					MATHEMATICS (MATH)				
483a-3	001	6:30-7:45	M W	SL 1224	Clemans				
501b-3	001	4:45-6:00	M W	SL 1221	Kurth				
520b-3	001	8:00-9:15	M W	SL 1220	Lazerson				
530a-3	001	8:00-9:15	T Th	SL 1221	Bennewitz				
550a-1 to 5	001	TBA							
550c-1 to 5	001	TBA							
555b-3	001	6:30-7:45	M W	SL 1220	A. Livingston				
576b-3	001	8:00-9:15	M W	SL 1334	Garder				
580b-3	001	8:00-9:15	M W	SL 1221	Clemans				
595-1 to 5	001	TBA							
599-1 to 5	001	TBA							
MUSIC (MUS)									
002e-1	001	7:30-9:20	T	PB 1402	Van Camp				
003-1	001	8:00-10:00	T	CB 1029	Schieber				
205b-3	002	4:30	MTWTh	PB 3406	Davis				
420-1	001	5:30-7:30	Th	CB 0104	Brauer				
455-4	001	5:30-8:20	W	PB 3404	Tulloss, Vang				
481-2 to 6	001	TBA							
482-2 to 6	001	TBA							

483-2 to 6	Readings in Music Education [By permit only]	001	TBA			
499-1 to 3	Independent Study [By permit only]	001	TBA			
502a-3	History and Analysis of Musical Style [By permit only]	001	5:30-8:20	M	CB 0194	Warren
514-2	Collegium Musicum [By permit only]	001	4:30-6:15	Th	CB 0158	Warren
519b-3	Vocal Pedagogy and Literature [By permit only]	001	4:30	MWF	TBA	Moore
550a-4	Organization and Administration of the Music Education Program [By permit only]	001	5:30-8:20	T	CB 0194	McMillan
566-1	Instrumental Ensemble [By permit only]	001	TBA			Fjerstad
567-1	Vocal Ensemble [By permit only]	001	TBA			Van Camp
599-3 to 9	Thesis [By permit only]	001				
PERSONNEL (PERS)						
451-4	Labor Relations Law and Collective Bargaining [GBA 340]	001	8:30-12:20	S	PB 2410	
452-4	Advanced Problems in Personnel Administration [450]	002	6:30-8:20	T Th	PB 2410	
PHILOSOPHY (PHIL)						
200-4	An Introduction to Philosophy	002	6:30-8:20	M W	LB 0044	Paxson
495-2 to 12	Independent Readings [By permit only]	001	TBA			
531-4	Plato [Graduate standing]	001	4:30-6:20	T Th	PB 2411	Linden
545-4	Rationalism [Graduate standing]	001	6:30-8:20 6:30-8:20	T Th	PB 1304 PB 0303	Emblom
572-4	Seminar in the History of Philosophy: John Dewey [Graduate standing]	001	4:30-6:20	M W	PB 1308	Broyer

350-4	Methods and Materials for Teaching Physical Education Activities in The Elementary School Additional ten hours TBA for both sections.	003 004	5:30-8:20 5:30-8:20	Th M	LB 0033 LB 0033	Luedke Moehn
389-4	Affiliation in Physical Education	001	TBA			Luedke
427-4	Physical Education and Recreation for the Handicapped	001	5:30-9:20	M	PB 2412	
475-4	Individual Research	001	TBA			Herrold
502-4	Foundations of Motor Skills	001	5:30-8:20	Th	PB 1304	Showers
503-4	Seminar in Physical Education	001	5:30-8:20	T	LB 0033	
525-4	Readings in Physical Education	001	TBA			Herrold
PHYSICS (PHYS)						
211b-4	University Physics: Light, Sound, and Heat [211a] Student enrolls for lecture and problem session.	Lect B 005	6:30-7:45 7:55-8:45	T Th T Th	SL 1105 SL 1105	
212b-1	University Physics Laboratory [Concurrent enrollment in 211b]	009 010	6:30-9:20 6:30-9:20	W F	SL 1218 SL 1218	
305a-4	Introduction to Electromagnetic Field Theory [211c, Math 305]	002	8:00-9:40	T Th	SL 1220	
404-3	Introduction to Statistical Mechanics [301, 304]	001	6:30-7:45	M W	SL 0226	
420-2 to 5	Special Projects [Consent of chairman]	001	TBA			
510b-3	Classical Mechanics [510a]	001	8:00-9:20	T Th	SL 0226	
530a-3	Electromagnetic Theory	001	6:30-7:45	T Th	SL 0226	
531b-3	Quantum Mechanics [531a]	001	8:00-9:20	M W	SL 0226	

PRODUCTION (PROD)

462-4 Production Planning and Control [460]

001 6:30-8:20 T Th SL 2231

PSYCHOLOGY (PSYC)

211a-4 Principles and Methods of Psychology
[GSB 201 c]005 6:30-8:20 T Th PB 2304
6:30-8:20 SL 2212211b-4 Principles and Methods of Psychology
[GSB 201 c]

002 6:30-8:20 T Th PB 0412 Starr

301-4 Child Psychology [GSB 201 c]

004 6:30-8:20 T Th PB 3305 Calhoun

303-4 Adolescent Psychology [GSB 201 c]

003 6:30-8:20 M W PB 3305

305-4 Introduction to Personality Dynamics
[GSB 201 c]

002 4:30-6:20 T Th PB 3305 Lamp

311-4 Experimental Psychology: Learning [211]

002 6:30-8:20 M W SL 2212 Kleinman

440-4 Theories of Personality [305]
Meets first four Fridays only.

001 5:30-8:20 W F PB 3316

451-4 Advanced Child Psychology [301]
Meets first four Fridays only.001 5:30-8:20 M F PB 1402 Traxler
5:30-8:20 PB 1410461-4 Advanced Social Psychology [307]
Meets first four Fridays only.001 5:30-8:20 M F PB 3316 Robbins
5:30-8:20 PB 3404465-4 Group Dynamics and Individual Behavior
Meets first four Fridays only. [307]002 5:30-8:20 W F PB 2415 Russo
5:30-8:20 PB 2411473-4 Personnel Psychology [320]
Meets first four Fridays only.

001 5:30-8:20 M F PB 1316 Daugherty

490-1 to 4 Independent Projects

001 TBA

495-4 Seminar: Selected Topics—Human Performance
Meets first four Fridays only.

001 5:30-8:20 T F SL 2212 Kohfeld

501b-4 Preliminary in General Psychology

Skinner

CB 0186

M

5:30-8:20

001

531-4 Advanced Psychopathology [Consent of instructor]

Lamp

TBA

001

541a-4 Psychodiagnostics I [211b, 421, consent of instructor] Lab TBA.

TBA

001

541b-4 Psychodiagnostics I [211b, 421, consent of instructor] Lab TBA.

TBA

001

590-4 Readings in Psychology

TBA

001

591-4 Research in Psychology

TBA

001

593-2 to 4 Practicum in Psychology

TBA

001

593s-2 to 4 Practicum in Psychology: School Psychology

TBA

001

599-2 to 4 Thesis

QUANTITATIVE METHODS (Q M)

6:30-10:20

001

511-4 Quantitative Methods for Decision Making

M

PB 3303

SCIENCE AND TECHNOLOGY (SC & T)

TBA

001

403a-3 Experiments and Techniques of Physics

SL 0212

9:00-12:00

001

415-1 Instructional Innovation for the Physical Sciences

S

SL 0226

6:00-8:30

001

505b-3 Concepts of Electricity and Magnetism

T

SL 0212

SOCIOLOGY (SOC)

6:30-8:20

001

301-4 Principles of Sociology

MW

Reynolds

6:30-8:20

002

302-4 Contemporary Social Problems

T Th

Hass

4:30-6:20

001

312-4 Sociological Research

T Th

Crowther

4:30-6:20

001

320-4 Race and Minority Group Relations

MW

Teer

396-1 to 5	Readings in Sociology	001	TBA			
410b-4	Quantitative Methods in Sociology (Same as Govt 410b and Geog 410b)	001	7:30-9:20	T Th	PB 0406	Crowther, Guffy
435-4	Social Stratification	001	6:30-8:20	M W	PB 1414	Blain
SPECIAL EDUCATION (SPED)						
410b-4	Problems and Characteristics of the Mentally Retarded Child [414] Meets first four Fridays only.	001	4:30-7:20 4:30-7:20	M F	PB 0412 PB 2413	Tucker
410g-4	Problems and Characteristics of the Learning Disabled Child [414] Meets second four Fridays only.	001	5:30-8:20	W F	PB 2414	Long
413a-4	Directed Observation of the Emotionally Disturbed [410a or concurrent enrollment in 410a]	001	TBA			Long
413b-4	Directed Observation of the Educable Mentally Handicapped [410b or concurrent enrollment in 410b]	001	TBA			Tucker
414-4	The Exceptional Child [C Ed 305] Meets first four Fridays only.	002	5:30-8:20	T F	PB 1313	Trout
420a-4	Methods and Materials in the Education of the Emotionally Disturbed Meets second four Fridays only.	001	5:30-8:20	Th F	PB 0314	Long
420b-4	Methods and Materials in the Education of the Educable Mentally Handicapped [410b] Meets first four Fridays only.	001	5:30-8:20	T F	LB 0051	Zenk
430-4	Behavior Modification in Special Education [Psync 420] Meets second four Fridays only.	001	5:30-8:20 5:30-8:20	M F	PB 2414 PB 3102	Ferritor
481 c-4	Seminar: Gifted	001	5:30-8:20	Th F	PB 2415	Shaffer

501-4	Special Research Problem [By permit only]	001	TBA			
513-4	Organization, Administration, and Supervision of Special Classes [414]	001	5:30-8:20	M	PB 2415	Whiteside
577-4	Practicum in Special Education [Consent of chairman]	001	TBA			
580a-4	Seminar: Education of Exceptional Children	001	8:30-11:20	S	PB 2415	Shaffer
590b-4	Seminar: Mental Retardation	001	5:30-8:20	Th	PB 2304	Tucker
SPEECH (SPCH)						
510-4	Seminar: Persuasion and Social Control Additional hour TBA.	001	5:30-8:20	M	SL 2231	Hawkins
532b-2	Areas and Techniques of Research in Speech	001	5:30-7:20	Th	CB 0194	St. Onge
SPEECH PATHOLOGY AND AUDIOLOGY (S P & A)						
420-4	Advanced Clinical Audiometry [406] Additional hour TBA.	001	5:30-8:20	M	CB 2012	Shoquist
428-4	Speech Correction for the Classroom Teacher Additional hour TBA.	001	5:30-8:20	Th	CB 2012	Maag
521-4	Seminar in Articulation and Delayed Speech Additional hour TBA.	001	5:30-8:20	W	CB 2012	Lieblich
THEATER (THEA)						
412a-4	Stage Design Additional hour TBA.	001	5:30-8:20	M	PB 1313	Vilhauer
519-1 to 4	Theater Practicum Additional hour TBA.	001	5:30-8:20	T	CB 2015	Archer

VOCATIONAL-TECHNICAL INSTITUTE (VTI)

CCS 107-2 Health and First Aid

001	6:30-8:20	Th	PB 1402
001	6:30-9:20	W	TBA

CCS 117a-3 Science and Nature

TECHNICAL AND ADULT EDUCATION (T & AE)

English Review

001	8:30-10:20	T	PB 0412
002	8:30-10:20	Th	PB 0412
003	6:30-8:20	W	PB 0413
004	8:30-10:20	W	PB 0413

Reading Improvement

001	4:30-6:20	T	PB 0412
002	4:30-6:20	Th	PB 0412
003	6:30-8:20	W	PB 0412
004	8:30-10:20	W	PB 0412

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TO EXALT BEAUTY

*In God,
In nature, and
in art;
Teaching how to love the best
but to keep the human touch;*

TO ADVANCE LEARNING

*In all lines of truth
wherever they may lead,
Showing how to think
rather than what to think,
Assisting the powers
of the mind
In their self-development;*

TO FORWARD IDEAS AND IDEALS

*In our democracy,
Inspiring respect for others
as for ourselves,
Ever promoting freedom
with responsibility;*

TO BECOME A CENTER OF ORDER AND LIGHT

*That knowledge may lead
to understanding
And understanding
to wisdom.*

SOUTHERN ILLINOIS UNIVERSITY BULLETIN

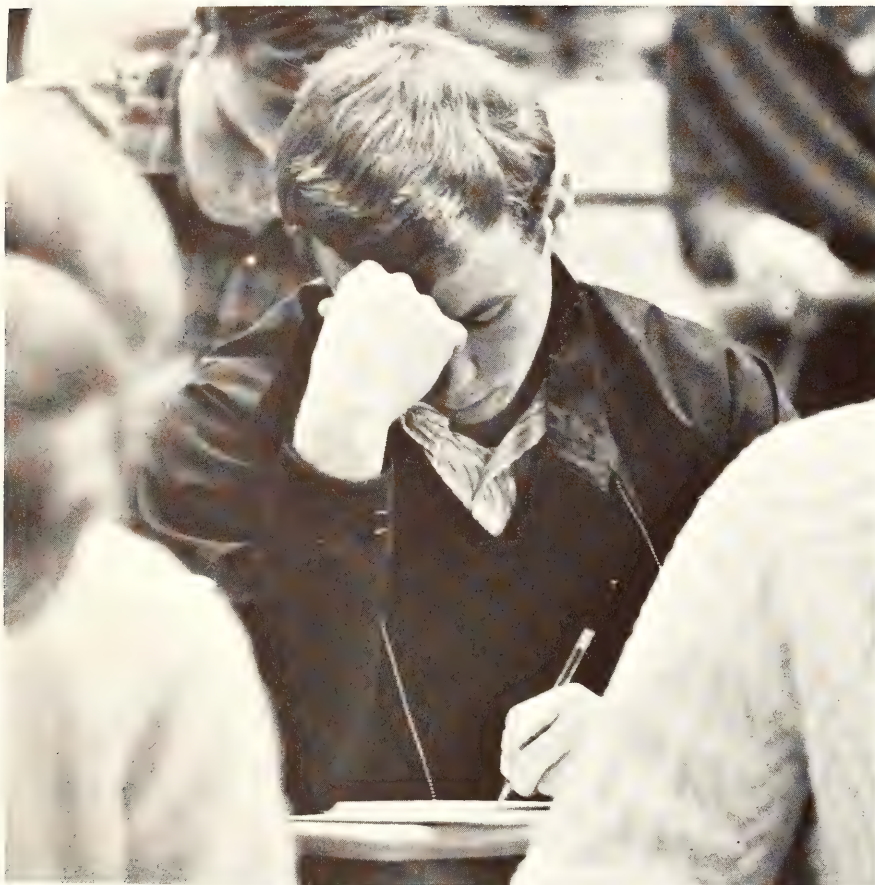
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guidelines

This bulletin is especially designed for the high school student who plans to enter Southern Illinois University at Carbondale, Illinois. It also provides useful information for other prospective students. It supersedes Volume 10, Number 8.

The following issues of the *Southern Illinois University Bulletin* may be obtained free from Central Publications, Southern Illinois University, Carbondale, Illinois 62901.

Vocational-Technical Institute Catalog.

Guidelines for Prospective Students (Carbondale or Edwardsville).

Schedule of Classes. Please specify **quarter** (fall, winter, spring, or summer) and **campus** (Carbondale or Edwardsville).

Undergraduate Catalog. The catalog is available for examination in high school guidance offices and libraries throughout Illinois and in some other states. Copies will be furnished free to educational institutions upon request and to new students upon matriculation. The catalog may be purchased at the University Bookstore for \$1; mail orders should be sent to Central Publications and must include remittance payable to Southern Illinois University.

Graduate School Catalog (Carbondale or Edwardsville).

university calendar

FALL, 1969

New Student Week	Sunday-Tuesday, September 21-23
Quarter Begins	Tuesday, September 23*
Thanksgiving Vacation	Tuesday, 10 p.m.- Monday, 8 a.m., November 25-December 1
Final Examinations	Monday-Saturday, December 15-20

WINTER, 1970

Quarter Begins	Monday, January 5*
Final Examinations	Monday-Saturday, March 16-21

SPRING, 1970

Quarter Begins	Monday, March 30*
Memorial Day Holiday	Friday, May 29
Final Examinations	Monday-Saturday, June 8-13
Commencement (Carbondale)	Friday, June 12
Commencement (Edwardsville)	Saturday, June 13

SUMMER, 1970

Quarter Begins	Monday, June 22*
Independence Day Holiday	Friday, July 3
Final Examinations	Monday-Friday, August 31-September 4
Commencement (Edwardsville)	Friday, September 4
Commencement (Carbondale)	Saturday, September 5

FALL, 1970

New Students	Sunday-Tuesday, September 20-22
Quarter Begins	Tuesday, September 22*
Thanksgiving Vacation	Tuesday, 10 p.m.- Monday, 8 a.m., November 24-30
Final Examinations	Saturday-Friday, December 12-18

WINTER, 1971

Quarter Begins	Monday, January 4*
Final Examinations	Saturday-Friday, March 13-19

SPRING, 1971

Quarter Begins	Monday, March 29*
Memorial Day Holiday	Monday, May 31
Final Examinations	Saturday-Friday, June 5-11
Commencement (Edwardsville)	Friday, June 11
Commencement (Carbondale)	Saturday, June 12

*Classes begin with the evening classes after 5:30 p.m. on the Carbondale Campus and with the evening classes after 4:30 p.m. on the Edwardsville Campus.

contents

INTRODUCTION	2	Profile of a Prospective Undergraduate
	3	Southern Illinois University
	3	Accreditation
	3	Location
	4	Choosing a University
	4	The Cost of an Education
	5	Applying for Admission
ADMISSION REQUIREMENTS AND PROCEDURES	6	How Not to be Late
	6	Incoming Students
	7	Documents Required for Admission
ORIENTATION ADVISEMENT AND REGISTRATION	8	Orientation
	9	Advisement
	9	Registration
HOUSING	10	Undergraduate Housing
	11	Married Student Housing
THE ACADEMIC PROGRAM	12	New Student Days
	13	The Beginning of Classes
	13	The General Studies Program
	13	Grades
	14	Facilities and Faculty
	14	Special Academic Programs
	14	Black American Studies
	15	Intercul
	15	Individual Honors Work
	15	President's Scholar Program
	15	Proficiency Examinations
	16	Undergraduate Degrees
	16	Baccalaureate Degrees
	16	Associate Degrees
	17	Preprofessional Programs
	17	Honors Day and Graduation Honors
UNIVERSITY SERVICES	18	Health Service
	18	Student Work and Financial Assistance
	19	Counseling and Testing Center
	19	Self-Instruction Center
	19	The Reading Center
	20	Handicapped Student Service
	20	Placement Service
	20	Other Services
STUDENT ACTIVITIES AND STUDENT LIFE	21	University Center
	22	Annual Campus Events
	23	Cultural Activities
	24	Greek Life
	24	Athletics
	25	Student Publications
	25	Religious Organizations
WELCOME TO SOUTHERN ILLINOIS UNIVERSITY	26	
GLOSSARY	27	



guidelines
for prospective students





introduction

PROFILE OF A PROSPECTIVE UNDERGRADUATE

The prospective college student is the foundation upon which the future is built. He may be the valedictorian of his graduating class or the all-conference half back. Sometimes he is a member of the student council, the audio-visual club, or the National Honor Society. He may even be the senior voted "most likely to succeed."

More often the prospective college student is the boy or girl who wants a better life, a secure future, and a well-defined place in society. He may be a little above average or just average, or he may squeeze into college just under the wire. He may have hopes, plans, and even dreams but may not, as yet, have really "found" himself.

Right now he may be attending a large suburban high school, a small rural high school, a small parochial school, or a public school in Chicago. His family background may vary from the well-to-do and influential to the meagre surroundings of the economically deprived.

The leader, the above average, or the average student learns and prepares himself to be the professional pillar of society and for the supporting semi-professional role that completes this vital foundation of the future. He learns and, eventually, works with others as a powerful team to better his life and to make the future more secure for his children and grandchildren.

The potential of this student is undefinable and unmeasurable. So, in order

for him to develop his potential to the fullest he must have the opportunity to study in the best facilities and be guided wisely. He must have the freedom to search for knowledge and truth. Southern Illinois University provides the opportunity for advanced, unbiased learning.

SOUTHERN ILLINOIS UNIVERSITY

Southern Illinois University at Carbondale is a growing state university with an undergraduate population of over 22,000. Its 4,000-acre campus with its 40-acre Lake-on-the-Campus is the site for its academic buildings and residence halls. Although the total enrollment ranks twentieth in the nation, Southern Illinois University focuses on the special interests of each student.

Emphasis is on a continuous learning process that will enable the graduate to cope with the perplexing problems which face today's society. University officials and teachers take an active interest in the individual rather than in the masses.

The year 1969 begins the five-year-long Centennial Period of Southern Illinois University, which was chartered in 1869, and which initiated instruction in 1874. The University offers degrees from a two-year degree program to the doctoral degree level.

Accreditation

Southern Illinois University is fully accredited by the North Central Association of Colleges and Secondary Schools. This means that all courses taken at the University have full credit value at any other college or university. This is important should a student wish to transfer or, upon graduation from SIU, work toward a higher degree at another university.

Location

The two main campuses are located at Edwardsville and Carbondale, Illinois. The Edwardsville campus, started in 1957, is considered the "new university," while SIU at Carbondale remains as the central point, located at the junction of U.S. Highway 51 and Illinois Highway 13 approximately 100 miles southeast of St. Louis and 350 miles south of Chicago.



The weather is relatively mild. However, an incoming student may expect anything from snowstorms and freezing temperatures in the winter to a heat wave of 105 degrees in the summer. Rainstorms occur frequently throughout the year. Consequently, the proper clothing for such a climate is a little bit of everything from boots to sun dresses.

The area surrounding Carbondale is called Little Egypt (the 14 southern-most counties of Illinois) because, so the legend claims, as in the biblical days of Egypt there was once a drought in northern Illinois, and the people came to the southern part of the state to obtain food. Towns with such names as Cairo and Thebes are located near by. The Saluki, famed racing dog of Ancient Egypt, is the official mascot and the symbol of academic tradition at the University.

Carbondale, with a population of 24,000 is within ten miles of two state parks and four lakes. Recreational facilities are in abundance. The region combines the Ozark foothills and slightly rolling prairieland to form a rugged and picturesque terrain with wildlife, rock formations, and large peach and apple orchards.

CHOOSING A UNIVERSITY

"Which school shall I go to? What will college be like?" These are questions that a high school senior may readily ask, and he needs to know the answers.

Choosing the university in which to pursue one's academic goals is difficult. Actually, one can never know what college life is like until he attends a university. However, he can learn much about college by reading college bulletins and visiting college campuses.

The purpose of this particular bulletin is to help the prospective student make his decision easier by anticipating his questions about Southern Illinois University at Carbondale and supplying him with the necessary information.



THE COST OF AN EDUCATION

A major concern of the prospective student, in addition to choosing a suitable university, is the cost involved in gaining a higher education. For one student this cost may appear low in comparison with his income, and he may have no difficulty whatever in paying the necessary expenses. For another the price of an education may seem incredibly high, and to pay it may require an economic struggle.

For the student with a meagre income, the University has provided a service known as Student Work and Financial Assistance, which can provide scholarships, work, or other ways of acquiring the funds for college. Tuition and fees may be offset through various types of scholarships. Any interested person can receive all the necessary information from the Student Work and Financial Assistance Office.

Of course, one can live on hamburger or steaks. A student at Southern Illinois University may live frugally or lavishly, but it is the school work that he does and his knowledge of it which determine his success or failure.

The amount of money needed for three quarters, or one academic year, is listed below. Naturally, cost of housing varies according to living accommodations; however, undergraduates must live in either University housing or Accepted Living Centers unless they live with their parents or guardians. Textbook rental, health services, and other benefits are included in the tuition and fees.

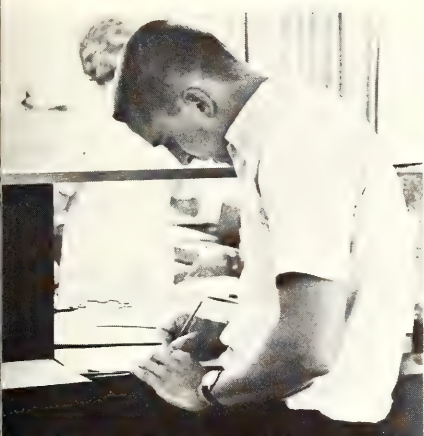
Cost Per Quarter

Tuition and Fees	
Illinois Resident	\$ 115.50
Out-of-State Resident	\$ 254.50
University Housing	\$ 327.00
Miscellaneous Expenses (dates, traveling expenses)	\$ 60 to 120

TOTALS

Per Academic Year

Illinois Resident	\$1,500 to \$1,700
Out-of-State Resident	\$1,900 to \$2,100



APPLYING FOR ADMISSION

After choosing a university and realizing the costs involved in attaining a higher education, the next important step for the prospective student is to write for an application for admission. Inquiries concerning admission to Southern Illinois University at Carbondale should be directed to the Admissions Office. In a letter of inquiry, the student may indicate the particular areas, if any, in which he is specifically interested. Upon request, the Admissions Office will send him application forms, bulletins, and brochures about the University. Also, he may write to any department on campus in which he has special interests.

The following section entitled Admission Requirements and Procedures is presented in this bulletin in order that the prospective student may learn through a step-by-step account exactly what is required of him as an incoming student and what he must do in order to gain admission to Southern Illinois University at Carbondale.



admission requirements and procedures

HOW NOT TO BE LATE

Putting off till tomorrow what should have been done yesterday is not such a good idea. So in order to avoid the payment of a late registration fee, the prospective student should not wait until the beginning of college classes to apply for admission. Instead, he can apply as far in advance as his seventh semester in high school. If he is a transfer student or junior college graduate, he can apply during the quarter before he plans to enter the University. Of course, admission hinges basically upon his grade average and the results of his high school graduation; but since housing contracts and class schedules depend on the student's official admission to the University, application should be made well in advance to avoid any last minute difficulties.

INCOMING STUDENTS

Adults of all ages enter the University. They come from high schools, community colleges, other universities, military service, and from all kinds of jobs. Even college teachers come back for more formal study. And they come from almost every state and nation. Some who seek admission find themselves ineligible, yet thousands of new faces appear every year. Where the person lives and his rank in college or high school affect his requirements for admission. For instance, a non-resident of Illinois must be in the upper forty percent of his high school graduating class while an Illinois resident needs to rank in the upper half of his class to enter the University during the

regular year. If a student does not meet these requirements or has not made a high enough score on the required ACT (American College Testing) examinations, he may only conditionally enter Southern during the summer quarter and must earn a **C** (3.00) average in order to prove that he is able to do college work.



The transfer student is someone who enters from another university or college. To transfer means to cross over, and that is exactly what this type of student is doing—crossing over from one school to another. He must present documents or transcripts (a listing of courses and grades) indicating that he has maintained a **C** average at his former school in order to be admitted to Southern unconditionally.

Another kind of new student is one who has never finished high school. He must pass the General Educational Development (GED) Test before entering the University.

A graduate of a two-year college who holds an associate degree may enter Southern any quarter without regard to his grade average, provided that he has not taken additional college work since his graduation. Otherwise, his admission will be considered from the same standpoint as a student transferring from a four-year school.

An international student is judged along comparable lines with incoming freshmen. However, since there is a considerable variation among education systems throughout the world, international students interested in making application to Southern Illinois University should ask for a copy of the *Information for Prospective International Students* booklet, which outlines in greater detail the admission procedures.

DOCUMENTS REQUIRED FOR ADMISSION

Below are listed items that each prospective student must complete before he can be officially admitted to Southern Illinois University and registered for classes.

1. The student should complete and return to the Admissions Office the application forms sent to him.

2. The Admissions Office must also receive transcripts of his previous educational experience. For instance, the high school student will need to request that two copies of his high school transcript be sent to the University, while a transfer student must have one official transcript sent from each institution he has previously attended. In addition, a transfer student presenting fewer than 48 quarter hours (or 32 semester hours) of completed college work must also provide a copy of his high school transcript.

3. The ACT examinations are very important, because Southern Illinois University uses the examination scores not only for admission purposes but also for the placement of its students in certain classes. These scores must be sent to the University; therefore, the student should write to the American College Testing Program, Box 451, Iowa City, Iowa 52240. Transfer students who have completed less than 48 quarter hours must also have their scores sent.

4. Each new student admitted as a full-time freshman or transfer student must have a physical examination performed by a private physician and recorded on the form provided by the University. This must be done prior to registration. The completed form must be sent directly to the University Health Service. In case of a religious belief that is in conflict with the plan, special arrangements may be made with the director of the Health Service.



orientation, advisement, and registration

Southern Illinois University attempts to provide an entering student an efficient and effective introduction to the University prior to the time he starts attending classes by having him participate in a coordinated system of orientation, academic advisement, and registration.

The University uses an advance registration system through which all students are expected to be advised and registered for a quarter well before it actually starts. The advance registration period for fall quarter ordinarily runs from the middle of April through the end of May and then from the early part of July to the latter part of August.

ORIENTATION

During the July-August period, three days each week are set aside for orientation, advisement, and registration of new freshmen and transfer students and for visits by their parents. The orientation program on these days is of necessity an introductory type in which questions about admission, housing, financial assistance, etc., can be answered. Later, at the start of the fall quarter, the new student will participate in three days of orientation activities during which he will receive a well rounded introduction to university life.

Starting in May and extending through June, the University's Admissions Office contacts new students who have been

admitted and arranges appointment dates for them to come to the campus. A student who cannot come to the campus during the summer or who delays applying for admission beyond the advance registration period may register at the start of the fall quarter but is required to come to campus a few days before those who have registered during the summer. A new student who has not been advised and registered by the time the orientation period starts at the beginning of the fall quarter is considered to be a late registrant and must pay a late registration fee.

ADVISEMENT

When the student arrives on campus to advance register, he first meets with an adviser to discuss his academic plans. This adviser is one of a group of trained workers devoting part-time attention to the important function of advisement. The responsibility for the advisement rests with the academic unit; this means the General Studies Division or Vocational-Technical Institute for freshmen and sophomores who transfer fewer than 64 quarter hours, and the various upper division schools and colleges for students who have more than 64 hours of credit upon transfer.

Transcripts and ACT scores are not only necessary for admission to the University but they also serve to provide suitable educational information to the adviser. If a student should receive advanced standing in courses or should be urged to take proficiency examinations in courses, the adviser will be informed of this through the transcripts and ACT scores so that he can advise the student of any necessary or extra steps he should take.

REGISTRATION

After advisement, the student goes to the Registration Center, where he registers for his courses and prepares a course schedule. At this time he fills out numerous data cards.



After he has registered, he receives a fee statement showing what tuition and other fees he must pay. If he has registered during the advance registration period, the card indicates the deadline date by which the fees must be paid. If the fees are not paid by the deadline date, the advance registration will be cancelled, and he must completely re-register at the beginning of the quarter. The tuition and fees must be paid at the Bursar's Office either in person or by mail. Registration, including payment of tuition and fees, will be considered invalid if the student is declared to be ineligible to register for scholastic, financial, or disciplinary reasons.

Detailed information concerning the dates and procedures for advisement and registration appear in each quarter's Schedule of Classes, which is available from Central Publications, Southern Illinois University, Carbondale, Illinois 62901.



housing

The prospective student is naturally concerned with where he is going to stay during his college career. Not only will his living quarters provide him with a place to sleep, possibly eat, store his belongings, and very probably meet new friends, but they will also bear a direct relationship upon his study habits and, consequently, upon his educational advancement. Southern Illinois University provides modern on-campus housing and continually seeks to raise the quality of the off-campus facilities. In cooperation with local apartment, dormitory, house, and trailer owners, the University inspects Accepted Living Centers regularly in order that they conform to standards of safety, sanitation, health, recreation, and supervision. Single undergraduates who are not residing with their parents or guardians are required to live only in quarters which have been classified as Accepted Living Centers.

Housing varies from a sparsely furnished room in a modest rooming house to a lavish apartment complete with swimming pool. Prices also vary accordingly.

University officials realize the growing cost of a college education and, therefore, provide low housing rates. If a new student plans to take advantage of University housing, he should apply as early as possible to Housing Business Services on campus in Carbondale, since contracts are awarded in order of receipt of application. Housing applications for an academic year are accepted any time after September 1 of the preceding year. How-

ever, contracts cannot be awarded until all admission requirements have been satisfied.

UNDERGRADUATE HOUSING

- Permanent University Residence Halls
(2 students per room, food included)
\$327 per quarter
- University Small Group Housing
(food cost varies from house to house but usually when combined with housing, cost is equivalent to residence halls total cost)
\$162 per quarter
- Off-Campus Student Dormitories
(2 students per room, food included)
\$300 to \$375 per quarter
- Off-Campus Apartments
(efficiency to three bedrooms)
\$50 to \$200 per month
- Houses
(One to three bedrooms)
\$50 to \$200 per month
- Trailers
(one to three bedrooms)
\$55 to \$200 per month
- Single Room
(boarding house or private home)
\$8 to \$20 per week

MARRIED STUDENT HOUSING

Southern Illinois University at Carbondale also provides a wide variety of housing to all interested married students. The University has a complex of apartments known as Southern Hills, consisting of 272 furnished one-bedroom, two-bedroom, and three-bedroom apartments. Evergreen Terrace, another grouping of family living quarters, consists of 304 two-bedroom and three-bedroom apartments equipped only with electric ranges and refrigerators. In addition to these facilities, a 53-space trailer court is provided by the University. The average rental charges for married students for on-and off-campus housing are as follows:

- University Housing, one-bedroom apartment
(apartments vary in price according to furnishings and number of bedrooms)
\$100 per month
- Off-Campus Apartments
(efficiency to three bedrooms)
\$35 to \$200 per month
- Houses
(one to four bedrooms)
\$50 to \$200 per month
- Trailers
(one to three bedrooms)
\$35 to \$190 per month
- Trailer Spaces
(does not include the trailers)
\$20 to \$45 per month





the academic program

NEW STUDENT DAYS

It is certainly not unusual for the new student, upon his arrival at college, to have some apprehensive moments. University life is a different and challenging experience; it is a new world opening up with people to meet and problems to face. For eighteen years, more or less, he has lived in the safety and harmony of his parents' home. Now he is on his own in an entirely new environment. It is little wonder that he might feel butterflies in the pit of his stomach at even the thought of "going away to college." However, Southern Illinois University has tried to eliminate as many of these nervous flutters as possible by providing New Student Days.

This special period, which is held three days before fall quarter and again during the first two days preceding other quarters, is for the purpose of acquainting new students with the campus, its rules and regulations, and its available services.

Upperclassmen act as New Student Leaders and help new students acquire textbooks, identification and library cards, and in general make other necessary arrangements before school starts.

Activity is at a peak during this particular time as the student attends informative meetings, informal dances, and relaxing social gatherings. A special highlight and tradition of the fall orientation period is a watermelon feast in the garden behind President Delyte Morris' home.

THE BEGINNING OF CLASSES

At the close of New Student Days, the quarter (one of the four approximately 11-week periods in which the school year is divided) begins with the starting of classes. The new student will probably find college classes very different from high school classes. For instance, he will discover that some of his classes meet three or more times a week while others may be scheduled only once or twice a week. He will find, too, that his instructors are different. They will not remind him again and again to read his lesson or do his homework. Instead, they will accept him as an adult living in an adult world.

The student must then make many decisions for himself, including what to do with an enormous amount of what appears to be spare time. One way is to put much of this time to good use by studying. Of course, every part of one's college career is an education in itself, but there is no substitute for the study of texts and the lectures presented by the faculty.

THE GENERAL STUDIES PROGRAM

The General Studies Program was developed with the idea that all students should have a broader education both socially and culturally. This program gives the student an education in a variety of areas rather than limiting him to simply his major and minor fields. He even has a certain amount of freedom in choosing his "required courses," since the University recognizes that what may be an especially good and interesting course for one person may not be so for someone else.

The General Studies Program consists of about 120 courses from which each student desiring a bachelor's degree selects about 20. Requirements may be satisfied in numerous ways: by taking courses (of course) or through proficiency examinations, high scores on the ACT, and sufficient high school class work.



GRADES

Grades can be the dread or delight of a student, but they are given in order to show the progress of his class work.

Each university has its own grading scale. Southern Illinois University at Carbondale has a scale based upon a five-point system. In short, a letter grade (A, B, C, D, E) is translated into a number grade (5, 4, 3, 2, 1). The product of the number of hours of credit for a course multiplied by the number grade is the number of grade points earned in the course. A student's grade point average is determined by dividing the total of his grade points by the total number of hours. All students are expected to maintain a 3.00 (C) average.



FACILITIES AND FACULTY

Southern Illinois University offers modern educational facilities to each of its students. There are over 315 buildings on the Carbondale campus with architectural designs varying from three 17-story high-rise residence halls to the SIU Arena with a seating capacity of 10,000. There are computers, a museum, Mitchell Gallery, a textbook rental system, and many other facilities for the student's use and benefit.

For the research-oriented student, the University provides everything from an electron microscope to Morris Library, a seven-story structure containing over one million books, a rare book room, micro-text equipment, hi-fi equipment, study and reading rooms, art prints, periodicals, newspapers, and other items.

In addition to these on-campus facilities, the University also has experimental farms, fish hatcheries, wildlife preserves, and a survey station in the Shawnee National Forest.

However, Southern Illinois University's main strength lies in the quality of its faculty, composed of teachers, scholars, and researchers who are available to help the student toward his academic goals. Of these 2,361 faculty members, over 53% have doctoral degrees; and there is a wide geographical and educational background among them. Faculty diversity ranges from professional educators with over 30 years of experience to business-oriented executives who relate the academic world to the business world.

SPECIAL ACADEMIC PROGRAMS *Black American Studies*

Taking a special interest in America's black people, Southern Illinois University at Carbondale provides a program by which emphasis is placed on the contemporary developments respecting black Americans. The curriculum explores the cultural and historical perspectives, and the black man's place in modern society is critically assessed. Tracing and analyzing modern trends in society foster awareness and understanding. New curricular material is evaluated concerning black America, and information is disseminated through the office of Black American Studies.



Intercul

Students interested in foreign cultures are urged to look into the possibilities which the Intercul program has to offer. This undergraduate studies program allows students to explore the cultures of others in great depth. The imaginative student can fully benefit from the flexible framework of this program.

Most of the Intercul courses are in the General Studies areas. These courses provide a good background for the advanced area studies of Africa, Asia, Europe, Russia, and Latin America. Also, in addition to course advisement, the Intercul staff assists students in foreign study and travel as well as individual self-instruction courses.

Individual Honors Work

Individual honors work is available for the outstanding student who desires a heavier concentration of research and independent study during his junior and senior years than is provided by the regular curriculum. Department chairmen and the dean of General Studies compile lists of students who are eligible.

President's Scholar Program

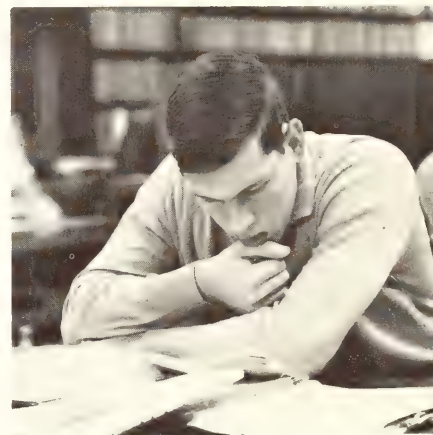
The President's Scholar Program affords academically talented students the opportunity to maximize their scholastic attainment through a flexible undergraduate program. The individually styled program allows superior students to participate in honors class sections and informal discussions with faculty members.

A President's Scholar staff provides special advisement procedures and assists individuals in obtaining the best curriculum possible. This allows the superior student to take advantage of the talent and resources at Southern Illinois University.

If a student scores 26 or above on his ACT examination or ranks in the ninetytieth percentile on the SIU Predicted Grade Point Average, he is invited to participate in this program. Also, his academic adviser may recommend him for this special group. Any entering student who does not fulfill the recommended qualifications but who is interested in joining the program should contact the director of the President's Scholar Center, Southern Illinois University, Carbondale, Illinois 62901.

Proficiency Examinations

Another method used by the University to encourage academically talented students is through proficiency examinations. These exams may be taken for whatever purpose the student desires: for the satisfying of basic required courses in order to move onto more advanced work; for additional credit; for graduation at a faster-than-ordinary pace; or, perhaps, for a freeing of the curriculum in order to permit a greater selection of elective courses.



UNDERGRADUATE DEGREES

Baccalaureate Degrees

To obtain a baccalaureate degree at Southern Illinois University, a student must successfully complete 192 quarter hours of credit in approved courses. The University at Carbondale offers the following subject concentrations leading to degrees:

Accounting
Agricultural Education
Agricultural Industries
Agriculture, General
Animal Industries
Anthropology
Art
Biological Sciences
Botany
Business Teacher Education
Chemistry
Design
Economics
Elementary Education
Engineering
Engineering Technology
English
Finance
Forestry
French
Geography
Geology
German
Government
Health Education
Health Science
History
Home Economics
Industrial Technology
Inter-American Studies

Journalism
Kindergarten-Primary Education
Latin
Linguistics
Management
Marketing
Mathematics
Microbiology
Music
Philosophy
Photography
Physical Education
Physics
Physiology
Plant Industries
Psychology
Radio-Television
Recreation and Outdoor Education
Russian
Secretarial Studies
Sociology
Spanish
Special Concentration
Special Education
Speech
Speech Pathology and Audiology
Technical and Industrial Education
Theater
Zoology

Associate Degrees

If a student chooses an associate degree, he must complete 96 hours of credit. At the Vocational-Technical Institute (VTI), which is located approximately ten miles east of Carbondale at Southern Acres, the following options in the two-year associate degree program are available:



ASSOCIATE IN ART

- Commercial Art
- Corrections and Law Enforcement
- Dental Hygiene
- Library and Audio-Visual
- Technical Assistants
- Physical Therapy Assistants

ASSOCIATE IN BUSINESS

- Accounting
- Electronic Data Processing
- Executive Secretarial
- Legal Secretarial
- Medical Secretarial
- Cooperative Retailing

ASSOCIATE IN TECHNOLOGY

- Architectural Technology
- Automotive Technology
- Aviation Technology
- Building Construction Technology
- Dental Laboratory Technology
- Electronic Data Processing
- Electronics Technology
- Forest Products Technology
- Highway and Civil Technology
- Machine Drafting and Design Technology
- Mortuary Science and Funeral Service
- Printing Technology
- Tool and Manufacturing Technology
- Water Resources Technology

Preprofessional Programs

Should a student enroll in a preprofessional program, he may, subject to certain conditions, obtain a bachelor's degree after three years' work (144 quarter hours) at the University and one or more years' work in a professional school. The following preprofessional courses are offered by Southern Illinois University at Carbondale:

- Dairy Technology
- Dentistry
- Law
- Medical Technology
- Medicine
- Occupational Therapy
- Pharmacy
- Physical Therapy
- Public Health
- Theology
- Veterinary Science

HONORS DAY AND GRADUATION HONORS

The University holds an Honors Day convocation at Carbondale each spring to recognize scholastic excellence. A candidate for a bachelor's degree in June or August who has maintained an average of 4.25 or more throughout his college career receives a special honor. Each junior having a 4.25 average and each sophomore and freshman having a 4.50 average is also honored at the convocation.

Graduating seniors are also recognized at commencement on the graduation program, and their diplomas designate honors granted on the following basis:

Highest Honors	4.90-5.00
High Honors	4.75-4.89
Honors	4.50-4.74





university services

HEALTH SERVICE

Health service facilities are important items on everyone's list. Southern Illinois University at Carbondale offers a modern, well-equipped health center staffed with professional doctors and nurses. Cost to the student is included in tuition and fees listed earlier; paying the fees entitles him to all the benefits of this service.

The infirmary provides limited medical care for students including a 24-hour emergency service, outpatient clinic, laboratory, and X-ray facilities. There is also a pharmacy in which drugs may be purchased at cost. Voluntary insurance programs are offered through the health service, too.

Carbondale also has two hospitals and one clinic in addition to the university health center; so the student can rest assured that he will be taken care of should he become ill.

STUDENT WORK AND FINANCIAL ASSISTANCE

Whether a student needs a job as a secretary or an errand boy, the Office of Student Work and Financial Assistance is ready to help. This office enables 7,000 to 8,000 students to find jobs on a part-time basis each year. Other ways for a qualified student to obtain the necessary funds to attend college are through federal, state, county, local, and University programs which provide for loans, scholarships, awards, and grants. The office helps the student decide exactly which ways are best for him to gain the needed funds. Also, this office aids the

student in obtaining a summer job.

Southern Illinois University at Carbondale is actively concerned with its student workers and provides the best possible jobs not only in terms of money but also for educational purposes.

COUNSELING AND TESTING CENTER

During a student's college career, he may find himself confronted with problems which cannot be solved without the help of others. Perhaps he feels the need to merely discuss these problems with someone who is more sympathetic than a wall—someone who will listen attentively and advise him wisely—someone other than a friend who may also be worried by problems. At such times as these the student is welcome to use the services of the Counseling and Testing Center. Here professional counselors and therapists help students meet and solve academic, personal, and vocational problems. Counselors may use individual discussions and/or modern testing devices to help each person understand and cope with his problem. In this way, the University provides help for students who are anxious to attain a healthier and more mature mental outlook toward their lives and their roles in society.

SELF-INSTRUCTION CENTER

The Self-Instruction Center is located on the main floor of Morris Library and contains programmed instructional materials prepared by University faculty and commercial suppliers. The main function of the center is to assist any student who is interested in increasing his academic proficiency. The center may also be used to explore interests beyond the original course work, to prepare the student for exams, and to strengthen subject areas with which the student is having difficulty.



THE READING CENTER

The new college student soon learns that the ability to read quickly and comprehensively is extremely worthwhile. Such ability enables him to finish his studies faster and more efficiently than his slow-paced neighbor. This, consequently, leaves him with more time for rest, relaxation, and for a general interest in college life and extra-curricular activities.

Southern Illinois University has provided the Reading Center, located in the Wham Education Building, for students who desire to increase their speed and comprehension or need assistance with reading or studying skills. This center, complete with modern equipment, can help the student to develop new reading habits and, perhaps, make his studies easier and more enjoyable.

HANDICAPPED STUDENT SERVICE

With level terrain, sidewalk ramps, and special elevators, the campus is specifically designed to facilitate the handicapped student. Through the Handicapped Student Service, the University is able to assist and provide for this type of student. The office, in cooperation with the Vocational Rehabilitation Association and the Illinois Division of Vocational Rehabilitation, makes the campus adjustment for the handicapped an easier transition. The service also assists in administering special grants and other forms of aid.

PLACEMENT SERVICE

One of the first things that a student usually thinks about when he considers graduation from college is a job. Many good job opportunities are indeed awaiting the college graduate, but how exactly does he find a list of these jobs? Having found a list, how can he decide which job is best for him? The University Placement

Service helps match employers with employees in such a way that both parties may benefit. Of course, this is no easy task.

Upon a student's request, a file at Placement Service is opened in his name, containing recommendations, transcripts, and any other information that he or the Placement Service deems pertinent in acquiring a job. Such a file is then open for all prospective employers. Appointments may also be set up at a student's request for interviews with campus representatives of many different firms, companies, and schools. Facilities are provided at the Placement Service in order that employers and students may meet and discuss future jobs.



OTHER SERVICES

Naturally, this only completes the list of major services offered to all students. There are a variety of other programs available. For instance, the University offers a voluntary Air Force Reserve Officers Training Corps program for those young men desiring entrance into the Air Force. Upon completing this program, the cadet enters as a second lieutenant.

Other services are the speech, hearing, and writing clinics, student government, various student publications, and intramural athletic programs. Southern Illinois University at Carbondale invites its students to take full advantage of these different services.



student activities and student life

UNIVERSITY CENTER

Southern Illinois University helps its students acquire a "well rounded" education. For this reason, the University contains not only the somber, quiet halls of academe but also the light and cheery corridors of the University Center, the hub of student activity.

Whether a student wants a quiet place to study by a roaring fire in the Magnolia Lounge in winter or a sunny spot to meet a friend for a Coke on the patio in summer, the University Center is inevitably the place to go. Located in this building are lounges, a cafeteria, snack bar, television room, bowling lanes, pool and billiard tables, locker storage, vending machines, checker, chess, and card tables, table tennis equipment, and the University Bookstore. The center also provides facilities for dances, banquets, receptions, gallery exhibitions, and meetings in its upstairs ballroom and lounges.

The University Center also maintains a headquarters office for student government and for most of the campus extra-curricular activities. Extra-curricular activities include a wide variety of student interests. Below is a relatively small sampling of the various groups:

Special Interest Groups

African Student Association
Campus Folk Art Society
Cheerleaders
Dames Club
Intramural Athletics

Modern Dance
Saluki Flying Club
SIU Karate Club
SIU Collegiate Sailing Club

Departmental Clubs

Advertising Club
American Marketing Association
English Club
Photographic Society
Debate Team
Der Deutschen Club
SIU Fish and Wildlife Association
Sociology Club
Women's Recreational Association

Scholastic and Professional Honoraries

Alpha Delta Sigma (Journalism)
Alpha Eta Rho (Aviation)
Sigma Delta Psi (Athletics)
Zeta Phi Eta (Speech—Women)



ANNUAL CAMPUS EVENTS

Each year Southern Illinois University presents a series of campus events, which it hopes will prepare its students for planning, coordinating, and, in general, cooperating with others in society.

Homecoming, one of the special events of any university, is held each fall. During this gala weekend, an elaborate parade, bonfire, pep rally, queen coronation, dance, and stageshow—not to mention an exciting football game—give interested students a chance for both work and amusement. Preparation for this particular event is made far in advance of the actual weekend festivities; and although there are fun and laughter during this time, beneath it all is a sense of learning and responsibility.

Parents' Weekend is, of course, devoted entirely to the students' parents, who are honored with a football game, celebrity show, and dance. At the Carbondale campus, two sets of "Parents for a Day" are selected at this time by a drawing, and these four people reign throughout the weekend at the designated university functions.

The International Festival is another event in which students may learn more about others. The highlights of this particular festivity are a Model United Nations conducted by interested students and an International Night, in which for-

eign students present talent shows and exhibits from their home countries. Also an international coffee, prepared in various styles, is served.

The Annual Theta Xi Variety Show is a popular event in which a program of outstanding campus talent is presented and trophies are awarded to winners of both individual and group performances.

Along with Spring Festival, its colorful midway and Arena stage show, is the Miss Southern Beauty Pageant, which is a Miss America preliminary pageant.

During the spring and summer quarters, water carnivals (often called Saluquaramas) feature a day of competitive aquatic events and beach activities climaxed by an evening of dancing and refreshments.

As one can readily see, Southern Illinois University provides the very best in student activities and entertainment, which are essential parts of a student's education.



CULTURAL ACTIVITIES

Southern Illinois University sets high standards for its cultural activities. It has established a tradition of fine convocation programs for its students. Prominent lecturers or performers in the areas of music, dance, and drama are often featured. The admission is free, and freshmen are required to attend six of these programs per quarter for three quarters.

Sponsored by the Coordinator of Special Programs and the Student Activities Center, the Celebrity Series brings both popular and classical entertainment



to Southern Illinois and the university community. The programs include touring companies of famous Broadway musical comedies and dramatic plays and performances by outstanding solo performers and recording artists.

The Arena Series offers such popular performers as Bob Hope, the Fifth Dimension, and other "big-name stars," while the Carbondale Community Concerts furnish classical music entertainers.

The University also provides a wide variety of film features. Movie Hour presents recent popular films. Savant, however, features a series of films based on famous and important works of literature and drama. Faculty-led discussions usually follow these programs in order that the student may receive the full educational benefit. Also the Cinema Classics series shows films which are acclaimed as classics of the motion picture industry.

In addition to other lectures, seminars, and conferences of special significance, the University also presents Inscape, a highly popular lecture series designed to explore topics of contemporary interest and importance to the college students, and Probe, a program designed to explore man's scientific experiences and knowledge in the social and natural sciences.

The Department of Music presents a variety of programs and concerts for the students, too. One of the outstanding features of this department is the presentation of operas and opera excerpts under the direction of Marjorie Lawrence, a former prima donna of the Metropolitan and Paris operas.

The Department of Theater, with its Southern Players and Interpreters' Theater, presents numerous dramas and readings throughout the school year.



GREEK LIFE

Southern Illinois University has eight nationally affiliated social fraternities, one local fraternity, and five national social sororities. Although membership in these organizations is neither a necessary nor essential part of the student's life, it can give added enrichment to one's college career. Besides providing worthwhile social activities for members, these organizations also give their assistance to numerous service projects for the community and the University. For example, voluntary blood donations, food packages for the deprived, and Christmas parties for the handicapped are just a few of the contributions.

The fraternities and sororities listed below are located at the University in an area known as Small Group Housing. This type of housing provides studyrooms, a dormitory sleeping area, and recreational and dining facilities.

SOCIAL SORORITIES

Alpha Gamma Delta
Alpha Kappa Alpha
Delta Zeta
Sigma Kappa
Sigma Sigma Sigma

SOCIAL FRATERNITIES

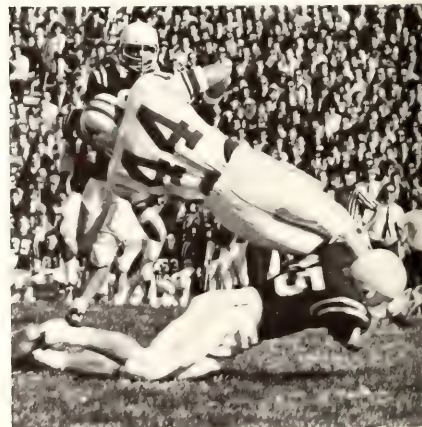
Alpha Phi Alpha
Delta Chi
Kappa Alpha Psi
Little Egypt Ag. Co-op.
Phi Kappa Tau
Phi Sigma Kappa
Tau Kappa Epsilon
Theta Xi
Sigma Pi

ATHLETICS

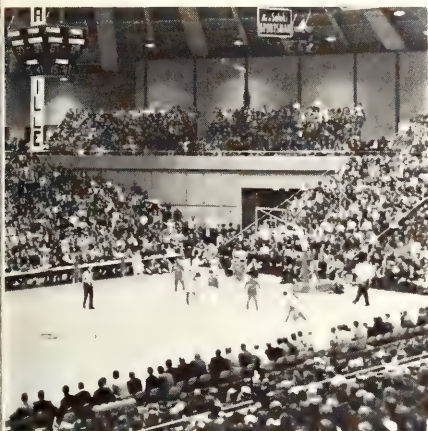
Southern Illinois University's athletic program ranks as one of the best in the nation. The Salukis were well represented by four Olympians in the Olympic Games at Mexico City in the fall of 1968. Gymnastics teams have won three NCAA titles, and the Saluki basketball team possesses the 1967 NIT trophy.

The quality of the University's coaching staff is of the highest possible caliber. The University is affiliated with the NCAA in the university division and schedules many of the nation's strongest teams as an Independent University.

Modern athletic facilities are highlighted by the SIU Arena. This multi-purpose, \$4.5 million structure with a seating capacity of 10,000 serves all general university needs. In addition to the Arena, Southern has 12 tennis courts, 2 baseball fields, football stadium and practice fields, and a cinder track.



The University also provides its students with an extensive intramural program. Activities range from flag football to handball. Campus leagues and tournaments are sponsored through the Intramural Office.



STUDENT PUBLICATIONS

For the student who has talent in the field of writing, there are numerous student publications to which he may solicit his work. He can, for instance, write for the *Daily Egyptian*, the campus newspaper. Or he may find that working on the *Obelisk*, the university's award-winning yearbook, is more to his liking. If poetry is his forte, however, he can submit his poems to *The Search*, an annual poetry anthology put out by the English Club and edited by Thomas Kinsella, winner of the coveted Dolman Award. *Grassroots*, a campus magazine, is another source for the publication of student poems, and also short fiction. In addition to these outlets for the talented writer, each living area publishes its own newspaper or newsletter.

RELIGIOUS ORGANIZATIONS

Carbondale offers over thirty churches of almost every denomination. On-campus facilities range from foundations with a professional staff to small clubs of interested members. The activities of the Interfaith Council, an advisory group of students for religious matters, endeavors to promote understanding among all student religious groups.

Each organization listed below exists to provide a religious and social outlet for students of a particular faith. Many of these organizations have centers on campus at which religious services as well as social and recreational activities are held.

Baha'i Club of SIU
 Baptist Student Center
 Canterbury Club
 Christian Science Organization
 Church of Christ Student Center
 Deseret Club
 Eastern Orthodox Club
 Gamma Delta
 General Baptist Student Organization
 Interfaith Council
 Inter-Varsity Christian Fellowship
 Jewish Student Association
 Kappa Epsilon
 Lutheran Student Association
 Moslem Student Association
 Newman Foundation
 Student Christian Foundation
 Unitarian Fellowship
 Wesley Foundation

welcome to southern illinois university

Because we at Southern Illinois University are especially proud of this institution of higher learning and because we believe that the fine qualities of our faculty and staff and our university facilities have much to offer a prospective college student, we sincerely hope that you will feel welcome to visit us and, perhaps, to choose our university as *your* university. The end of this bulletin may very well mean the beginning of your college career.



glossary

The following glossary is meant to help the prospective student become acquainted with certain words, phrases, and slang expressions used on today's college campuses and especially at Southern Illinois University.

ACADEMIC LOAD. Number of hours of course work. The normal academic load is 16 hours per quarter.

AREA OF CONCENTRATION. A subject or field of study chosen by a student to represent his principal interest and upon which he concentrates a large share of his efforts.

AUDIT. To attend class and do prescribed work but not receive a letter grade or credit.

B.A. Bachelor of Arts.

B.S. Bachelor of Science.

BURSAR'S OFFICE. Students pay tuition, fees, and residence hall charges, and organization officers deposit funds here.

CAMPUS. The grounds of a college. Southern Illinois University main campuses are located at Carbondale and at Edwardsville.

CAMPUSED. The restriction imposed on coeds for "late minutes" on closing hours; usually this entails remaining in the room or residence area for a stipulated period of time.

CHANCELLOR. The governing academic administrator of the campus.

COED. A woman attending a college or university.

CONVO (short for CONVOCATION). A cultural program open to all students but required of all freshmen.

CUT. The voluntary non-attendance of a

class.

DAILY EGYPTIAN. The student newspaper.

DEAN'S LIST. The academic honor roll.

DECAL (OR STICKER). A gummed label applied to a car or other type of motor vehicle in order to permit a student, staff, or faculty member to park in a university lot. In general, new students are prohibited from owning or operating a motor vehicle on campus.

DISSERTATION. An original research work submitted in requirement for a doctor's degree.

DORMIE. A student who resides in a university residence hall.

DROP. To officially withdraw from a course.

ELECTIVE. A course that counts toward a degree but is not required.

EMERITA OR EMERITUS. Retired or honorably discharged from active duty because of age, infirmity, or long service, but retained on the rolls, such as a "professor emeritus."

EXTRA-CURRICULAR. That which is not a part of a specific course or courses, such as sports or clubs.

FINAL. An examination testing student comprehension of material covered in a course during the quarter.

FRAT. A fraternity or fraternity man.

FRESHMAN. A first-year student who has completed less than 48 hours of course work.

G.S. General Studies, a required series of courses designed to give the student a broad academic course variety.

GRAD STUDENT. A graduate student

pursuing an advanced degree.

GRADE POINT AVERAGE. The total number of grade points divided by the total number of hours of credit.

GRADE POINT SYSTEM. A five-point system is used at SIU; A=5, B=4, C=3, D=2, E=1.

GRANT-IN-AID. Financial aid to a student. Usually this type of aid does not have to be repaid.

GREEK. A student who is a member of a social fraternity or sorority.

GREEK ROW. Small Group Housing, the location of a fraternity and sorority houses.

HOUR. At Southern Illinois University an hour of classwork means 50 minutes with a 10 minute passing period to the next class.

HOUR OF CREDIT. This represents the work done by a student in a course that he attends one hour per week for one quarter. A quarter hour.

IDENTIFICATION CARD or ID. A plastic card with the student's social security number, picture, name, and age on it. This is an extremely important card used not only for identification purposes but also for checking out textbooks and library books and obtaining other necessary items.

INTRAMURAL. Activities within the university, such as intramural sports.

JUD BOARD OR J. BOARD. The Judicial Board is a committee of student members selected by residents of their living area to handle violations of regulations.

JUNIOR. A student who has completed

from 96 through 143 quarter hours.

LA&S. The College of Liberal Arts and Sciences.

M.A. Master of Arts.

MAKE-UP. A test given to a student who, for some excusable reason, missed taking it at the appropriate time.

MATRICULATE. To enroll in a college or university.

MID-TERM. An examination testing a student's comprehension of material covered in the first half of the course.

M.S. Master of Science.

OBELISK. The Carbondale campus student yearbook.

Ph.D. Doctor of Philosophy.

PLEDGE. A man or woman who has joined a fraternity or sorority but has not become an active member.

PROBATION, DISCIPLINARY. A trial period in which the student is permitted to change his personal conduct to a more acceptable level.

PROBATION, SCHOLASTIC. A trial period in which the student is permitted to redeem his academic good standing.

PROF. An abbreviation for professor.

QUARTER. One of the periods into which instruction is organized (usually 12-week periods). Southern Illinois University operates on a four-quarter system.

QUARTER BREAK. The vacation period between quarters.

RECORD NUMBER. The number (usually a student's social security number) that is given to a student during registration and is used to identify his individual records while at the University.

REGISTRAR. The university officer who

processes student admissions, coordinates the total registration process, keeps the student's academic records, and assists in certifying students for graduation.

RUSH. The process whereby students visit fraternities and sororities and choose the particular group they wish to pledge.

SCHOLARSHIP. Money or other aid granted to a student who is academically or athletically talented.

SCHOOL. A particular faculty or academic unit of the university having the right to recommend candidates for degrees.

SECTION. The particular group of students taking a course.

SÉMINAR. A small group of students engaged in advanced study and original research under a member of the faculty.

SENIOR. A student who has completed 144 quarter hours or more.

SOPHOMORE. A student who has completed at least 48 but less than 96 quarter hours.

SYLLABUS. A collection of expressed opinions or articles contributed by several persons on a given subject or topic.

TAKE-HOME FINAL. A final exam which the student may write at home with the use of a textbook.

THESIS. An original research work submitted in requirement for a master's degree.

THOMPSON POINT OR TP. The residence area on campus that is located on the edge of the Lake-on-the-Campus.

UNDERGRADUATE. A student who has not achieved his first academic or bachelor's degree.

UPPERCLASSMAN. A junior or senior.

VTI. Vocational-Technical Institute.

WAIVE. To put aside or to dismiss in connection with a course. In particular this means to gain approval to omit some required course and to take related work in the same subject area.

WOODY HALL. The residence hall that is now being used as office space for the bursar's office, the advisement center, the international student center, etc. A cafeteria is located here also.

WSIU-FM. The University's FM radio station (91.9 megacycles).

WSIU-TV. One of the University's television stations (channel 8).



Southern Illinois University Bulletin

Guidelines *for Prospective Students*



Objectives of
Southern Illinois University

To exalt beauty
In God,
in nature, and
in art;
Teaching how to love the best
but to keep the human touch;
To advance learning
In all lines of truth
wherever they may lead,
Showing how to think
rather than what to think
Assisting the powers
of the mind
In their self-development;
To forward ideas and ideals
In our democracy,
Inspiring respect for others
as for ourselves,
Ever promoting freedom
with responsibility;
To become a center of order and light
That knowledge may lead
to understanding
And understanding
to wisdom.

Board of Trustees and Officers of Administration

Board of Trustees

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Guidelines *for prospective students*

Southern Illinois University at Edwardsville

Southern Illinois University Bulletin

Volume 11, Number 15, December 22, 1969.

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Carbondale, Illinois 62901, monthly except February, March, April
and December, when published semi-monthly.*



This issue of the Guidelines
for Prospective Students covers in general the
questions high school juniors and seniors may have
about Southern Illinois University at Edwardsville.
It supersedes Volume 10, Number 8.

The following Southern Illinois University publications may be obtained free from Central Publications, Southern Illinois University, Edwardsville, Illinois 62025.

Undergraduate Catalog. This catalog is available for examination in high school guidance offices and libraries throughout Illinois and many other states. Copies will be furnished

free to educational institutions upon request and to new students. Or, a copy can be purchased at the University Bookstore for \$1. Mail orders should be sent to Central Publications with remittance payable to Southern Illinois University.

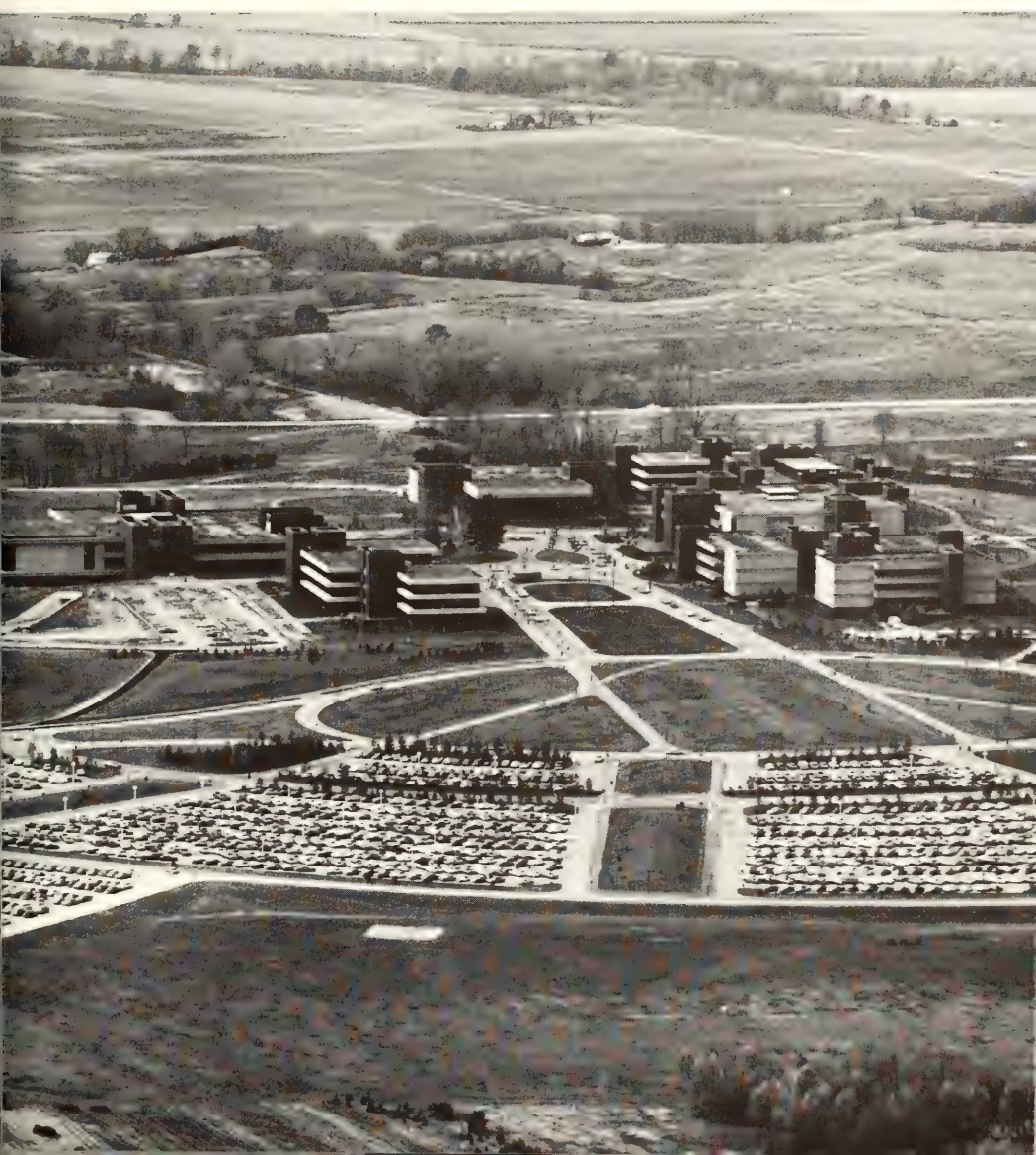
Schedule of Classes. Please specify which school quarter (fall, winter, spring, or summer).

Graduate School Catalog

Student Work and Financial

Assistance

Division of Technical and Adult Education



Contents

Page 1 / *So you want to go to college?*

Page 2 / *What's happened?*

Page 4 / *Helpful information*

Page 8 / *So what do I do?*

Page 10 / *Now that I'm in—what?*

Page 12 / *Getting with it*

Page 14 / *What is the General Studies Program?*

Page 18 / *Choices within the General Studies Program*

Page 20 / *How about grades?*

Page 22 / *What's "academic load"?*

Page 24 / *What can I study at SIU?*

Page 26 / *What are the special programs?*

Page 30 / *What will it cost me?*

Page 34 / *When do I pay these fees?*

Page 36 / *What about financial assistance?*

Page 38 / *What student services are available to me?*

Page 40 / *Student organizations—can I belong?*

Page 44 / *Facilities, facilities, facilities*

Page 49 / *Whew!*

Page 50 / *Glossary*



So *you want to go to college!*
And you're interested in SIU!

Well, SIU is interested in you. This booklet was written just for your benefit, to let you know more about us, and to let you in on what *you*—as a person interested in studying at Southern Illinois University at Edwardsville—must do to become a student here.

The procedures and requirements of our University, as with those of any university, may seem a little complicated at first. They might even get you down since they do tend to get tiresome. We know that. Everyone knows it! But this booklet, hopefully, will help in giving you a

clear picture of what goes on during the months before you become an SIU student. This booklet should further help by telling you what to expect during your first quarter of classes and by giving you some idea of what is available for you at the University.

If the information in this booklet helps you approach our University's procedures and requirements with a sense of preparedness and confidence, then it will have successfully attained its aim.

Good luck to you in your next four years.



What's happened?

What's happened is that Southern Illinois University has had a past vividly colored with change.

Starting first as a teacher's college in Carbondale, Illinois, and later growing into a multi-purpose university, SIU has been an eager servant to its community, state, nation, and other countries for over 100 years.

In 1957 with the pressing need for sound, higher education in the Midwest—particularly in the metro-east

region which is a bi-state area covering St. Louis and some twenty miles east of the Mississippi River—Southern Illinois University, Carbondale, adeptly established the Alton Residence Center and the East St. Louis Residence Center. Although these two centers functioned well and seemed to confront the area's challenge, 60,000 local residents felt it wasn't enough. They began a fund-raising campaign to provide the means for purchasing 2,600 acres

of land two miles southwest of Edwardsville where they could build "their new university;" \$432,628 was accumulated. Then, with the passing of a Statewide University Building Bond, \$25 million more was provided. At present, the University investment totals over \$50 million.

In April, 1960, architects Hellmuth, Obata, and Kassabaum began the planning for a University at Edwardsville, and in the fall quarter of 1965, students began attending classes in the forward-looking,

four-building complex. In addition, to these main buildings, private homes on the site were purchased and remodeled to serve as office space. In March 1967, the University Student Center was completed; during the winter quarter, 1969, the four-level General Office Building opened its offices. Latest additions are the University housing units and the festive, domed tent built specifically for the Mississippi River Festival but used in various ways all year round.



Helpful information

As you may already know, SIU still operates in two geographically separate areas—called the Carbondale Campus and the Edwardsville Campus.

Mentioned before is the fact that the Edwardsville Campus operates at three separate locations, one in Alton, one in East St. Louis, and one in Edwardsville. These sites, within thirty miles of each other, serve somewhat different functions. The Alton and East St. Louis Centers offer courses applicable to associate degrees and courses for the first two years of University work. The Alton Center, in addition, houses the School of Dental Medicine. Both of these centers comprise about 1,000 students. The Edwardsville site, however, offers both bachelor's and graduate degrees. Its student body totals over 10,000, and its faculty members total over 450—52 percent of whom hold doctorate degrees, 35 percent of whom

hold master's degrees, while the rest are in the capacity of visiting professors or artists in residence.

Individuals and groups involved in scientific research at all three centers are aided by government funds, business and industrial foundations, and the University's Office of Research and Projects. Six hundred Civil Service employees serve the Edwardsville Campus in its normal operational tasks. University self-supporting services are the Food Service, the University Center, and Student Textbook Rental Service. Textbook rental as opposed to purchasing textbooks is much appreciated by students since it

greatly decreases the over-all cost of their education.

The University's closeness to St. Louis makes for a variety of entertainment available to University students and faculty. The Muny Opera, the Planetarium, the Art Museum, the St. Louis Symphony Orchestra, Forest Park Zoo, Kiel Auditorium, Major League sports at Busch Stadium, river boat restaurants and old time melodrama are just a few.

The natural terrain of Southern Illinois University at Edwardsville provides its own recreational facilities and activities, such as canoeing,



sailboating, golf, soccer, track, archery, fishing, and lake swimming. In addition, the University provides facilities for bowling, basketball, baseball, pool, and table tennis. Through the Student Activities Organization, guest lecturers, classical and popular musicians, symphony orchestras, acting troupes, comedians, artists, Hollywood personalities, playwrights, foreign correspondents, poets, folk singers and more all appear before the student to enrich his life. "Mrf" (as in "Murph"), or the Mississippi River Festival, is another attraction provided by the University which area residents as well as students and faculty enjoy.



Fully accredited by the North Central Association of Colleges and Secondary Schools and many other major American crediting agencies, Southern Illinois University at Edwardsville is growing rapidly. It is not only active in discovering ways to aid our country in its social, political, cultural, and economic issues, but it is also a doer, a contributor toward alleviating the problems of the people of our land and others. And if history is any indicator of what the future holds, we certainly can expect something colorful and meaningful for the community from Southern Illinois University.

Still interested in SIU?



So what do I do?

To enter any University a person must prepare himself academically while still in high school.

This you've probably heard before, but it's true. Working hard, taking good, solid courses, and trying to do well in all your classes is the way to begin. Then, when you've completed your high school work, there is a certain procedure you must follow to become considered as a prospective student at SIU. The following pages list, in order of occurrence, what you must do to meet the admission requirements of our University.

1. To be considered admissible, a person must be a qualified, graduated high school student, or he must take the GED test (General Educational Development test) and pass it before he will be considered. The senior year is a valuable year for a student in that it is his last preparatorial year before he begins four years of more intensive, instructional work. The GED test is designed mainly for veterans of the armed forces or for those who had to leave high school to work in support of their families or for other reasonable causes. Contact the Director of Admissions at the University concerning when and where the

GED is given if you are in the latter category.

2. Write to the Registrar's Office for an admission application form. And since you will want to know more about what the University offers in various fields, also request additional information concerning the particular fields of interest you think you would like to study.

3. Since each new student is required to have a physical examination before enrolling for classes, you will need to make an appointment with your family physician. A special form, provided by the University Health Service, will be sent to you along with the other application material you requested from the Admissions Office. This form should be filled out jointly by you and your physician and promptly sent to the Health Service Office.

4. Contact your high school and have your records sent to the University Admissions Office.

5. Since *all* students must take the American College Testing program (ACT) and have their scores sent to the University, contact your high

school counselor or the University's Counseling and Testing Service Office to find out when and where these tests will be given. These tests are important because they are used as a standard in deciding course placement, awarding scholarships, selection of honor students, counseling, and general admission.

Generally, all Illinois high school graduates who rank in the upper half of their graduating class or who achieve high scores on the ACT are considered for admission. Those who rank in the lower half of their graduating class are considered for admission on a conditional basis and are allowed to enter only during the summer quarter.

Non-Illinois high school graduates ranking in the upper forty percent or who score high on ACT program are considered for admission. Those ranking in the upper half—but not upper forty percent—are considered for admission only during the summer quarter and only on a conditional basis.

Both Illinois and non-Illinois students admitted conditionally to a summer quarter can qualify for the fall quarter by carrying not less than 8 hours of work and achieving a C average or better.

Transfer students, foreign students, and unclassified students interested in attending SIU should check the requirements listed in the undergraduate catalog.



Now that I'm in—what?

Once you've received an acceptance letter certifying your admittance, there are a few other things you must do to make your admission procedures complete.

For technically, you're not a student until all the procedures have been correctly completed and processed and you're sitting in the right class at the right time listening to an instructor lecture.

Information concerning registration dates and an appointment with a General Studies adviser will also be sent to you. This General Studies adviser, alias G. S. adviser, is a valuable person to you since he will assist you in planning much of your course work. He is the man who will make sure you'll be enrolling in the various courses that fulfill the University's General Studies requirements for graduation. He will assist you in enrolling for classes each quarter of your first two years at the University. Once you have completed the 84 hours of General Studies courses and have determined exactly in which field of study you prefer to concentrate your efforts, another adviser will be assigned to you for the last two years of your University study. This new adviser, representing your selected field of concentration ("major" may be a more familiar

term to you) will guide you toward fulfilling the University's requirements for a bachelor's degree within your field of concentration.

The rest, as the saying goes, is blood, sweat, and tears.

Only after you consult with your G.S. adviser can you enroll for classes. Remember to have your Social Security number with you since you may need it if you plan to, later in the day, inquire about a student job. (If you do not have a Social Security number, apply for one at your local Social Security office.)

Detailed information concerning the dates and procedures for advisement and registration are available in the *Schedule of Classes Bulletin* from Central Publications.

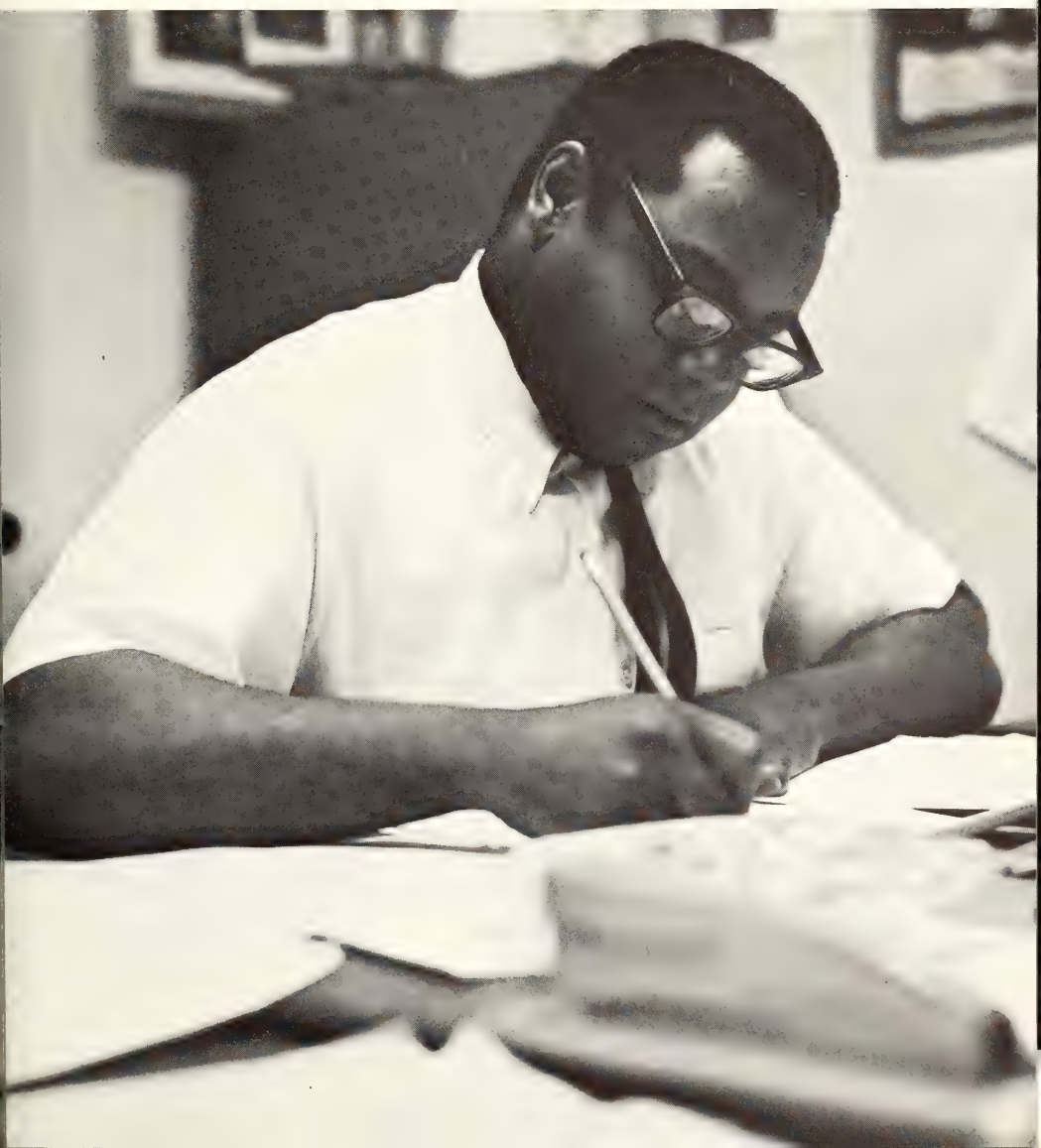
When you go to the Registrar's Office to register for classes, go prepared for occasional waiting periods. Dress comfortably and wear comfortable shoes since registration lines are sometimes long. Carry with you a blue or black ink pen in order to fill in properly the many IBM cards which are provided. And it's a good idea to memorize your Record

Number, the number which will be assigned to you.

If you are fortunate enough to be attending the University on a scholarship, have all the necessary information concerning your scholarship available. Or, if you will be attending the University on the GI Bill, bring your certificate of eligibility. (Check with the University's Veterans' Adviser in the Registrar's Office.) Further, it is at this time that you will be expected to pay tuition and other fees. The Bursar will accept cash, checks, or money orders.

After you have registered for classes, you'll want to pick up your textbooks and have an identification

photo taken. Check for posted signs that indicate the when and where of both these items and make a special effort to have your picture taken as soon as possible. This photo is used on the ID card that you will keep for the next four years. The number three IBM card, which you will get at registration, and your ID card will be needed for practically everything you do at the University. Since all undergraduates rent their textbooks, your textbooks will be issued to you from the Textbook Rental office after tuition and other fees are paid. Once this is done, you are ready to begin attending Southern Illinois University.



Getting with it *And how do we begin? We begin by orienting ourselves -by doing the ground work of becoming familiar with our surroundings.*

In particular, we try to acquaint ourselves with the University buildings and offices, with the University procedures and policies. With so many new things bombarding our senses, this period of orientation can often be a vague, confusing experience. But it doesn't have to be!

In order for you to benefit and learn during this orientation period, the University sets aside one day—usually the day before classes begin—to help acquaint you with SIU in an organized and leisurely manner. It is at this time that you will see what is available to you at the University and learn what is expected from you. A program of speakers—usually featuring the Dean of Students, the student body president, someone from the library faculty, and others—is scheduled to give a general address. Topics entail information on the University's disaster alarm system and the student government—how it is structured and how it works. Color slides are shown to exemplify student life; this 15-20 minute slide period has the benefits of a guided tour of the campus without

the after effects of tired feet. It is also during Orientation Day—as it is called—that Parking Permit Registration forms and Student Guidebooks are given to students, along with other valuable pamphlets on how to study, how to get the most from textbooks, and how to enter and leave Lovejoy Library without getting entirely lost. After the speakers and slides, and the forms and pamphlets have been dispensed, you are invited to an informal coffee break in the student University Center where many of your questions can be asked and answered. Finally, after the coffee break, those who wish can

take advantage of an actual guided tour of the campus. Here, you can see exactly where the numerous offices and buildings are located in relation to each other and can learn how to find your way around the campus—information you'll need during all four years of your stay at the University.



What is the General Studies Program?

*In answer to the question,
“What does a good education consist of?” the General
Studies Program was born.*

Perhaps you have your own ideas in answer to this question. Most educators quite diverse in their opinions would agree, however, that an introduction to various fields makes for a better educated, well-rounded person. Most persons would agree that a highly specialized individual (a research chemist, for

example) who is very valuable in the laboratory but who has had little experience or training elsewhere is often ineffectual when it comes to various other aspects of living—growing and making discoveries in our modern, often demanding world. This realization lies at the base of the General Studies program at Southern Illinois University. The General Studies program aims toward developing the well-rounded man who, in addition to being very competent in his particular field, is also knowledgeable in other areas of life which confront him every day.

Therefore, there are five basic areas of study in the General Studies program at Southern Illinois University. They are GSA, GSB, GSC, GSD, and GSE (there's those aliases again). Each area offers diversified yet related courses and requires a certain number of quarter hours. To illustrate: the

area of 1) Man's Physical Environment and Biological Inheritance (GSA) requires 22 hours from a collection of courses in physics, chemistry, botany, zoology, and earth science; the area of 2) Man's Social Inheritance and Social Responsibilities (GSB) requires 22 hours from a distribution of courses in geography, history, economics, government, sociology, social studies, psychology, and anthropology; the area of 3) Man's Insights and Appreciations (GSC) requires 22 hours from a collection of courses in art, music, literature, and philosophy; the area of 4) Organization and Communication of Ideas (GSD) requires 18 hours

from a collection of courses in English, speech, foreign languages, and mathematics; and finally the area of 5) Health and Physical Development (GSE) requires 6 hours in physical education and hygiene courses.

The program is arranged so that two years of study are devoted to General Studies and two years of study are devoted to a student's chosen field of interest. Those 84 hours (or total of two years' work) can be extended over a three-year time period so that during a student's senior year he will be taking only upper-level courses in his "major," or area of concentration.



This arrangement has several obvious advantages. For example, here is a solution for the student entering the University not knowing exactly what career he wants to pursue. During the first year or two of his academic life, General Studies courses may be taken as a means of discovering where his real interests lie and what his special capabilities are. Then, of course, during the last year or two of his studies, he may concentrate singly upon those courses from his chosen field. Further, it has long been recognized that such an attempt to broaden understanding and to show the inter-relatedness, often the inter-dependance of various



fields enlightens a person's particular field of interest and better enables him to make discoveries within his specialized field.

In order for you to graduate with a bachelor's degree from Southern Illinois University, then, you must satisfy the General Studies requirements, the requirements for your primary area of concentration, and the area of secondary concentration requirements. If you plan to teach, you must also meet the requirements for teacher certification.



Choices within the General Studies Program

Each G.S. student is entitled to waive the third-level courses in the General Studies area (A, B, or C) which most closely relates to the area in which he will concentrate his work.

Further, it is possible that an exceptional student may be given advanced standing (or by-pass certain requirements without credit in corresponding courses) in a certain area of work if he has had extensive high school preparation in that area and has scored highly on the ACT and/or other special advanced standing exams. Those students who are qualified through registration in an advanced placement course in high school or by other special education may apply for advanced placement and college credit through the Advanced Placement Program of the College Entrance Examination

Board (CEEB), 475 Riverside Drive, New York, New York 10027. Students with superior backgrounds in certain subjects may receive credit in related courses by passing proficiency exams. Also, in a limited number of cases, a student may be permitted to substitute courses in some areas for regularly prescribed General Studies courses.

If you qualify and are interested in these variations, you should consult your G.S. adviser for additional information.



How about grades?

Once the ordeal of advisement and registration is over, you will have four years of rather extensive mental work ahead of you.

Perhaps in addition to this you will be working a part-time job in order to meet expenses. And maybe you'll want to devote a lot of time and energy by participating in clubs and fraternities or by taking advantage of the film festivals, concerts, plays, entertainment groups, guest lecturers, and other activities on campus. All these activities are presented by the University for your benefit and are *equally* a part of your education as is attending classes, taking exams, and writing papers. But one important question you'll want to keep in mind is, "How am I doing academically?"

Since grades are important indicators that learning has taken place, Southern Illinois University has the following grading system :

Grade Points Per Hour

A—Excellent	5 (You're in)
B—Good	4 (You <i>could</i> do better)
C—Satisfactory (Average Performance)	3 (You're making it)
D—Poor	2 (Watch it)
E—Failure	1 (You've <i>had</i> it)

As a student of Southern Illinois University, you are expected to show evidence of academic progress

throughout your college career.

Academic growth and achievement are displayed by a gradual but steady climb in your grade-point average.

No student can graduate from the University with less than a C average.

The University incorporates a system of Scholastic Warning and Academic Probation aimed at insuring a student's progress toward achieving the C average necessary for graduation.

For detailed information, refer to the undergraduate catalog which has a section that explains the University's system of academic progress.



What's "academic load"? *The average number of hours carried, or the normal academic load for a student is 16 hours; the maximum is 18.*

A student with a 4.25 grade-point average, however, may carry as many as 21 hours with the approval of his adviser.

A student on scholastic probation may not carry more than 14 hours. A student working a full-time job should not carry more than 8 hours.

Ordinarily, you must carry 12 or more hours per quarter to be considered a full-time student. A number of programs (for example, the GI Bill number 358 which requires 14 hours) may have different requirements. Also, if you are a student attending the University with the aid of a scholarship, a loan, or another type of program requiring full-time enrollment, you should be certain

that you are meeting the requirements of your specific program.

If you are an undergraduate student concerned with Selective Service, you should carry a *minimum* of 12 hours to be considered full-time and must also make satisfactory academic progress. Further, since you will need to accumulate 48 passing hours each year, you should consider 12 hours only as the minimum load assuming you plan on attending summer quarter classes. If you do not attend summer school, you should consider 16 hours per quarter as the average load to be maintained throughout your three-quarter year.

Any change in student status (from full-time to part-time, dropping out of school, or graduation) will be reported to the Selective Service by the Registrar's office. Additional information on Public Law 358 (the GI Bill) and Selective Service is available from the Veteran's Adviser in the Registrar's Office.



What can I study at SIU?

*The Edwardsville Campus of
Southern Illinois University offers courses in the
following fields of study:*

American Studies
Anthropology
Art
Biology
Business Administration
Business Education
Chemistry
Comparative Literature
Dental Medicine
Economics
Elementary Education

Engineering
English
Foreign Languages
Geography
Government
Health, Recreation, and Physical
Education
History
Journalism
Mass Communications
Mathematics
Music
Nursing
Philosophy
Physical Science
Physics
Professional Writing
Psychology
Public Administration and Planning
Sociology
Special Education
Speech
Speech Pathology and Audiology
Theater

Preprofessional fields in which you may take one year of work or more at Southern Illinois University and then transfer to another university for professional training are:

Law
Medical Technology
Medicine
Veterinary Science

The fields of specialization in which Southern Illinois University grants associate degrees (which normally require two years of study) are:

Accounting
Child Care Services
Industrial Management
Secretarial Studies

The Graduate School offers curricula leading to the Master of Arts, Master of Fine Arts, Master of Science, Master of Music Education, Master of Science in Education, Master of Business Administration, and the Specialist in Education degrees. The Sixth-Year Specialist Certificates are offered in Secondary Education, Counselor Education, and Educational Administration and Supervision. Additional information concerning the Graduate School can be obtained by writing the Graduate School Office.



What are the special programs?

Deans College

The Deans College is an academic program offered for exceptionally capable students. In general, a 4.5 grade-point average is required for admission, but students with outstanding high school records or others who are highly recommended by a teacher or guidance counselor due to their exceptional abilities or accomplishments may also be admitted. Each Deans College student is assigned a faculty adviser. Together they plan a program of study based upon the student's needs and capabilities. In this way, the program serves those who work well alone, who wish to study in depth, and those who show evidence of talent and motivation which promise significant achievement. Direct queries to the Deans College Coordinator, Room 1211B, Science Laboratory Building, Southern Illinois University, Edwardsville, Illinois 62025.

Humanities Honors

Humanities Honors is a program which provides extensive study in humanities fields centering on a particular problem or set of problems not offered in regular class work. All Humanities Honors courses, held within a seminar format, contain a select group of students which engage in intensive study. Those students who are in the Deans College, or who have been on the dean's list, or who hold a B average or better are eligible for Humanities Honors courses. Although offered by the Humanities Division, this program is not limited to students concentrating in humanities curricula but encourages students from all fields to participate.

Credit for Military Service Courses

The USAFI courses are accepted for credit by Southern Illinois University within the limitations enforced for extension and correspondence work. No credit is given for college-level G E D (General Educational Development) tests. The University follows the recommendations on crediting courses as presented by the American Council on Education in the *Guide to the Evaluation of Educational Experiences*. Separation papers must be presented to the Registrar before credit is given for military service courses.



ROTC

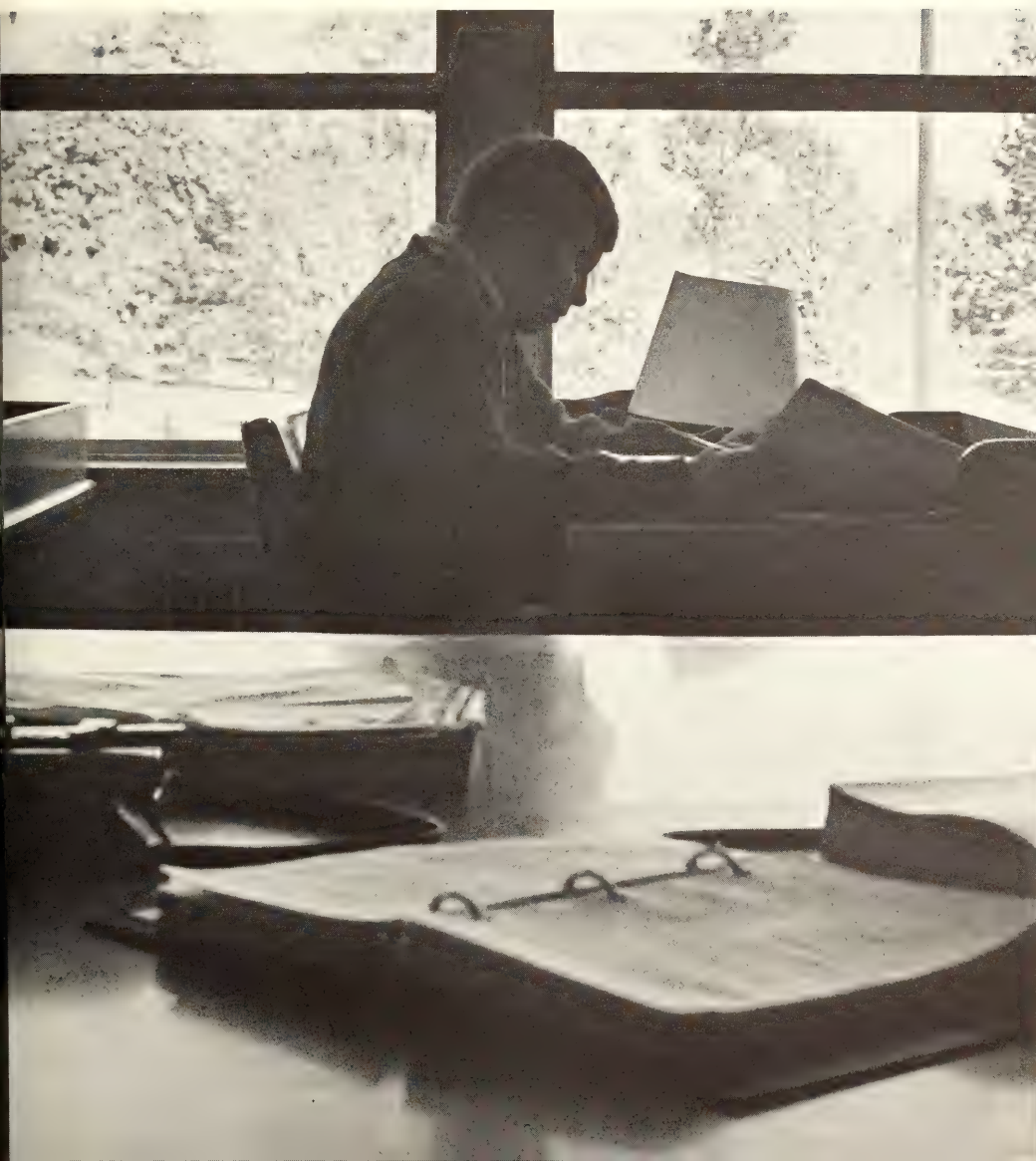
The objective of the Air Force Reserve Officers Training Corps (ROTC) is to qualify students for appointment as Second Lieutenants in the United States Air Force. Administered by commissioned officers of the USAF, the ROTC program is a two-year course of study. Students gaining entry into this program qualify competitively through written and physical exams and by approval from an interview board of Air Force officers. For further information, write directly to the Air Force ROTC unit, Southern Illinois University, Edwardsville, Illinois 62025.



Correspondence and Extension Courses

Southern Illinois University does not maintain a correspondence division, but it does give credit for correspondence courses taken from other accredited institutions if the grade earned is a C or better.

A maximum of 96 hours (or one-half the number of hours required for a bachelor's degree) can be taken by correspondence or extension courses combined. Of this total, however, up to 48 hours can be earned through correspondence courses. Contact University Extension Services for information concerning the various areas of study available in this program.



What will it cost me?

Tuition and Other Fees

The cost of your education at Southern Illinois University cannot be *exactly* determined because of the variety in individual tastes and budgets. Entertainment, food, clothing, and transportation costs are just a few areas which allow for great flexibility. The wide range within these items not strictly considered educational costs but which are, however, directly related and contributing to a student's welfare

makes the task of accurate financial planning somewhat difficult. Books, tuition, fees, and housing costs can more accurately be estimated, but these expenses, too, established by the Board of Trustees, can change whenever conditions make change necessary.

Realizing this, the following guidelines can be used to estimate the costs directly associated with the University structure.

	<i>Not more than 5 hours</i>	<i>More than 5 Less than 11</i>	<i>11 or more</i>
Tuition—Illinois Resident	\$ 22.00	\$ 45.00	\$ 67.00
Tuition—Non-Illinois Resident	(69.00)	(137.00)	(206.00)
Student Welfare and Recreation			
Building Trust Fund Fee	5.00	10.00	15.00
Book Rental Fee	3.00	6.00	8.00
Student Activity Fee	3.50	7.00	10.50
University Center Fee	5.00	5.00	5.00
Athletic Fund Fee	3.00	6.50	10.00
Total—Illinois Resident	\$ 41.50	\$ 79.50	\$ 115.50
Total—Non-Illinois Resident	(88.50)	(171.50)	(254.50)

In addition to these expenses, you may encounter other fees if you are among the following circumstances:

1. The student who registers for classes late is charged a late registration fee of \$5.
2. An AF ROTC equipment deposit of \$5 is required of each student who registers for ROTC. This deposit, less any charge for lost equipment, is refunded to him at the end of the year.
3. A student is entitled to a free transcript of his University record each time he adds credit from the University to his work record, provided

he has no financial obligations to the University. All additional transcripts, however, require a \$1 charge.

4. A \$17 graduation fee is charged a student who graduates from Southern Illinois University.

5. A \$5 matriculation fee is charged to a graduate student who is a graduate of a school other than Southern Illinois University.

Audited courses are assessed on the same basis as those taken for credit; therefore, a student who registers to audit a course pays the same amount as the student who registers for a course for credit.



The Student Activity Fee includes fees for limited hospitalization insurance, entertainment, athletic events, student publications, and other activities provided by the University.

Housing Costs

Beginning with the fall quarter of 1969, University housing facilities were opened for single or married undergraduate or graduate students, and faculty and administrative staff.

Comprised of thirty-one, two-story brick buildings containing eight apartments each, the Tower Lake Apartments offer both furnished and unfurnished apartments of on-campus living. All of the apartments, including those unfurnished, are individually heated and air-conditioned and contain an electric range, refrigerator, drapery, and disposal. They are located on the site of the University's largest lake, Tower Lake, just one-half mile northeast of the main academic core.

The following guidelines may be used in determining on-campus housing expenses :



<i>Apartment Description</i>	<i>Total Number Available</i>	<i>Rental Including Utilities Except Telephone</i>
2 bedroom co-op for 4 single undergraduate students	104 furnished	\$105 per quarter
2 bedroom apartment for married students, staff, and faculty	76 unfurnished 20 furnished	\$115 per month \$125 per month
3 bedroom apartment for married students, staff, and faculty	38 unfurnished 10 furnished	\$125 per month \$135 per month

For more information (policies, application form, etc.) contact the Housing Office (692-3931), Southern Illinois University, Edwardsville, Illinois 62025.



When do I pay
these fees? *Your general tuition
and other fees are to be paid during the time
of registration.*

If you pay full-time student fees but later find that you must reduce the total number of credit hours to that of part-time classification, you are entitled to a refund of tuition and book rental fees equivalent to the number of hours you withdraw from your schedule. However, this reduction of hours and refund is allowed only within the first ten days of the school quarter.

Refunding of total fees is possible only after you have *officially* withdrawn from school and during the first ten days of a quarter. Further, your refund application must be received by the Registrar within the first ten days of school each quarter.



What about financial assistance? *scholarships, loans, and student work?*

Southern Illinois University assists needy and deserving students in their problems of funding a college education in several ways. Student loans, grants, and scholarships are available to assist those academically capable but lacking the financial means for achieving an education. Tuition awards (known as Southern Illinois Scholarships and Activity Awards) are available to those who have a comprehensive high school C average and rank in the upper half of their graduating class. If you are such a student desiring financial assistance, you must be officially admitted to the University before you will be eligible to receive the awards. You should not expect these sources alone to meet *all* of your university expenses, however. Many students earn about one-third to one-half of their school expenses by working a full-time job in the summer, or working a part-time job during school, or through previous savings.

Another way the University helps a student meet his financial expenses is through the Office of Student Work and Financial Assistance. This office offers a program in which students may combine part-time job efforts with financial assistance to defray a large part of their educational expenses. Job diversity extends from unskilled labor to those jobs requiring previous experience or training. The Student Work program offers part-time employment located conveniently on campus. Often student work may be related to a student's academic goals. To qualify for part-time employment on campus, you must be enrolled for a minimum of 3 hours.

Another program, the Federal Work-Study Program, requires a minimum of 12 hours. The pay for student work ranges between \$1.30 to \$3.00, depending upon the job and the student's qualifications.

Applications for financial loans and student employment or further information on student awards can be obtained from the Student Work and Financial Assistance Office. Send applications for financial assistance at least six months before you plan to become a student at SIU.



What student services are available to me?

There are numerous services available through the University which will assist you with the problems you may encounter during your four years at Southern Illinois University.

Some of the major services deal with financial, medical, and educational problems. Here is a brief sketch of these services.

The *Counseling and Testing Center* offers free counsel on academic, personal, or vocational matters to all University students and faculty.

Student Housing provides information on available and approved on-campus housing (as mentioned before) and off-campus housing facilities. The Student Housing Office keeps updated listings of housing facilities in the area for students and faculty without charge.

International Services Division attends to the special needs of students from foreign countries. Matters of immigration, passports and sponsors, financial, personal and other problems of foreign students are the concern of this office.

The *Health Service* provides emergency medical care free of charge to students. Also, a hospital insurance program is available to students at a special rate.

The *Office of Student Work and Financial Assistance*, as earlier mentioned, provides various kinds of financial assistance for students. These services are also free to the student.

The *Self-Instruction Center* is available to the student who needs additional material useful in mastering a course. Taped lectures, 16 mm film, records, and various other instructional machines are available at the Center and are offered free of charge.

For the student who wishes individual instruction outside the classroom, the *Student Tutoring Organization* is available at his convenience.

The *University Placement Services* functions as an employment agency for Southern Illinois University students upon their graduation. Opportunities for interviews with representatives from various companies plus the benefit of teacher evaluation and references are just some of the services this office offers free to Southern Illinois University students throughout their lives.



Student organizations *can I belong?*

Living the life of a student doesn't mean you will be constantly cooped up among stacks and stacks of books and term papers never to see the "outside world" again except when going to and from classes. Of course not! Equal to your deliberate study habits is your participation in the various extra-curricular activities of the University. By combining both physical and mental capacities at various levels and interests, you develop a completeness of character and intelligence. Here, your life becomes a full life. Friends are made; things are done. The following student activities will aid you in reaching this goal. Often groups or organizations will be directly related to your particular field of study; often the interest groups seeming somewhat removed from your field will enhance as well as broaden your world view.

The following is a list of subject-area organizations at Southern Illinois University.

Accounting Club
Art Service Club

Biology Club
Economics Association
English Club
French Club
Geography Club
German Club
Government Club
History Club
Management Club
Marketing Club
Math Club
Philosophy Club
Physics Club
Playmakers Club
Pre-Law Club
Psychology Club
Social Welfare Club
Sociology Club
Spanish Club
Student Nurses Organization

Special interest groups include the following:

Black Student Association
Canoeing Club
Chessmen
Committee for International Concern
Dance Club
Fencing Club
Gymnastics Club

International Club
 Kappa Mu Alpha Service
 Organization
 Late Starters
 Sailing Club
 Science Fiction Foundation
 Self-Defense Club
 Square Abouts Dance Club
 Student Tutors Organization
 Wrestling Club
 Young Americans for Freedom
 Young Republican Club

Upsilon, *national honorary in geography*; Health, Physical Education, and Recreation Club; Kappa Delta Pi, *national honorary in education*; Lambda Iota Tau, *national honorary in Literature*; Mu Phi Epsilon, *women's international music society*; Music Educator's Conference, *national*; Phi Beta Lambda, *national business fraternity*; Phi Eta Sigma, *men's national freshmen honorary*; Phi Mu

The professional and/or

honorary organizations are:

Biology Honorary; Delta Sigma Psi, *national business fraternity*; Freshman Women's Honorary; Gamma Theta



Alpha, men's national music fraternity; Pi Kappa Delta, national speech honorary; Pi Omega Pi, national teacher education honor society; Psi Chi Honor Society, national honor society in psychology; Sigma Alpha Eta, national speech pathology; Sphinx Club, local non-academic service-honorary; Student National Education Association; Zeta Phi Eta, women's speech fraternity.

The religiously affiliated organizations are:

Baha'i Organization (Baha'i Faith)
Baptist Student Union (Baptist)



Christian Science Organization
(Christian Science)
Deseret Club (Church of Jesus Christ
of Latter Day Saints)
Inter-Varsity Christian Fellowship
(Inter-denominational)
Newman Community (Roman
Catholic)
Wesley Foundation (Methodist)

In addition to those organizations mentioned above there are twelve different fraternities and sororities at Southern Illinois University. Each contributes in its own way to enrich a student's life.



Facilities, facilities facilities

There are six main building facilities at present which comprise the central academic core of the University.

Elsewhere on the 2,600 acre campus are University owned houses which have been converted to fit office needs. The future holds extensive plans for additions to some of these main buildings and the creation of many more. Although each building may serve various functions, these functions emphasize related areas of concentration. The architectural firm of Hellmuth, Obata, and Kassabaum brought unity to the complex through design and materials. Deep plum brick and concrete panels with quartz balconies and darkened glass emerge majestically from the peak of a hill; in expression, the architectural complex displays western modernity blended with eastern thoughts of simplicity, unity, tranquillity, and dignity.

The Communications Building

The three-floor Communications Building is thoroughly modern and comprehensive. It contains not only traditional facilities for dramatic and music arts but all the electronic equipment and facilities necessary

for television and radio transmissions. This combination permits development of many common auxiliary facilities for operating personnel and technicians as well as performers and aspiring students. The Communications Building contains an open stage theater, which seats approximately 440 people, and a small studio theater which is actively used by acting and dance classes.

Workshop and costuming facilities are available for theater students while furnished individual practice rooms are available for music students. The Speech and Hearing Center provides classrooms, therapy rooms, and sound proof hearing and testing rooms. The Computer Center and the Telephone Exchange Service operate from this building as do the Mass Communications and Broadcasting Services divisions. The large circular wall of the theater lobby functions as a gallery area for art student and faculty showings and for floating art exhibits which the University brings in. All of the six buildings are equipped with several elevators.

Lovejoy Library

At present, Lovejoy Library contains 370,000 volumes and 4,150 current periodicals and extends its collection each year by more than 50,000 volumes. Its open stack system of borrowing means that borrowers are allowed direct access to the books on the shelves rather than having librarians claim books for them upon request. Therefore, only a certain entrance and exit route is available, and a checking station at the exit door requires that all books, briefcases, and parcels be inspected before leaving the building. Individual study carrels, group study tables, and lounge chairs are distributed throughout this four-story

building. In addition to its book and periodical holdings, the library maintains a music listening area which offers more than 7,000 phonograph records. There are also a map library containing over 50,000 maps, a microfilm collection with several microfilm viewers, and self service copying machines. Audio Visual Services, Textbook Rental Services, and the Self-Help Laboratory are located in the lower level of this building. Auguste Rodin's famous bronze *The Walking Man* and Isamu Noguchi's art piece *Shodu* permanently reside in Lovejoy Library along with numerous other original art works.



Peck Classroom Building

This general classroom building is a complex of three main divisions—two divisions are used only as classroom space and the other is used as division office space for faculty members. The numerous entrances to this building are linked by a central stairwell. Re-usable metal partitions, modular design for mechanical services, and modern, expansive lighting make it possible to change the room sizes if necessary. This flexibility means twelve students or two hundred students can be accommodated in a given “room” to meet the needs of a seminar situation or a mass lecture hall. In

addition, the Language Laboratory operates from this four-level building. Here, students supplement language classwork with direct practice in spoken foreign languages using up-to-date electronic equipment.

Science Laboratory Building

All scientific laboratories—physics, chemistry, geology, botany—are in this building. In total there are thirty-two labs, plus a variety of preparation and lecture rooms. All laboratories were designed so that they are completely interchangeable among the many scientific disciplines. This new idea in tote tray systems of laboratory furniture components was



developed through Educational Facilities Laboratories, Inc. The two science auditoriums seat over 450. The upper level contains a greenhouse and several areas for experimental-control animals. Also, until a fine arts building is constructed, the art department has some of its studios in the lower level. Presently, the Wagner Building in Edwardsville (which once housed the commercial efforts of Wagner Electric Plant) serves some of the art faculty's other needs. Construction is already underway to expand the Science Laboratory Building.

University Center

The University Center is the fun house of the campus for students. It is the center of recreation and relaxation. To begin appropriately, a carefree frolicsome mobile *The Plumb Bob* the artistic creation of Yasuhide Kodashi, hangs somewhat effortlessly from the building's centered light-well. Directly below this art piece is a sunken living room equipped with piano and extravagantly modern lounging chairs—the perfect place for relaxing and social gathering. The UPI ticker tape service goes ticking away all day long just east of this lounging area, right next to a general bulletin board. Floating art exhibits color two of the



wood paneled walls which are connected by various offices—the *Alester* and *Muse* offices, Student Activities Office, Student Senate, Program Council and Center Board, and the Craft Shop. At the other end of the building is the student bookstore, information booth, and coat check room. Next to this area is the Governors' Lounge set aside specifically for leisure and pleasure reading or congenial socializing by a fireplace. Adjoining the Governors' Lounge are several separate, smaller rooms available for TV viewing, record playing, or—furnished with a piano—group singing. The University Ballroom is on this floor along with

another large room which is usually available for banquets or for accommodating guest lecturers. On the lower level is the student cafeteria referred to as the Cougar Den and another dining place which has a terrace connected to it. From these dining areas you can see the home of Chimega, the campus mascot cougar. Near the recreation room is a canteen service and barber shop. The third level, to change the mood somewhat, at present is used to house the Business Division offices and the Department of Nursing. The walls on this level, too, are decorated with art pieces from floating exhibits and changed from time to time. A



more formal and elegant dining room, the University Club, is also on this level as well as are private rooms which can be reserved for film viewing, lecturing, or dining with catering service.

The General Office Building

The GOB, or General Office Building, is used strictly as the name implies. The President's and Chancellor's offices, Housing, Registrar and

Admissions, Bursar, Dean of Students Office, General Studies Division, Business Affairs, and Academic Affairs Office are all housed in this building. Also there is the Graduate Office, the Student Teaching Office, International Services Office, Religious Council, Student Work and Financial Assistance Office, Central Publications, News Service, Security, Duplicating Office, Health Services and the Post Office.

Whew! *What more is there to say except we hope you enjoy your stay.*



Glossary

The following glossary should familiarize you with the terms, phrases, and general jargon used particularly at Southern Illinois University at Edwardsville.

academia, academic. Relating to an academy or school of higher learning.

academic load. Sometimes called work load, this is the number of hours of course study per quarter. The average number of hours per quarter is 16.

aced it. A jargon phrase referring to how well a person does academically in a course. To ace a course generally means to make an A for the final grade.

Admissions; Admissions Office. Where admittance to a University is granted and where entrance procedures occur.

AF ROTC. Abbreviation for Air Force Reserve Officers Training Corps. Pronounced "rot-see."

Alestle. The student newspaper. The name is derived from the first letters of the three University sites: A/ for Alton, est/ for E. St. Louis, and e for Edwardsville.

area of concentration. At other universities this is known as a student's "major." Here, it is the student's main field of study. A student's "minor" is his secondary area of concentration.

Audio-Visual Services. The office which relates both hearing and sight devices as a teaching method.

audit. To attend a course without receiving formal credit for it while having officially enrolled for the course as an auditor.

Bursar's Office. The office which receives student tuition and other fees.

Chimega. The name of the University mascot; a cougar.

coed. Short for coeducational student; a female student.

Comm, The. Abbreviation for the Communications Building.

Concert Choral. Coeducational vocal group whose members achieve admission by audition.

Cougar Den. The dining room area located on the western end of the University Center cafeteria.

Cougar Den Mate. A coed chosen each month whose photo appears in the *Alestle*; comparable, on the college level, to *Playboy's* girl of the month.

curricular, curriculum. The courses offered by an educational institution; a set of courses.

cut a class. Slang for not attending class for a non-apparent or frivolous reason.

dean's list. A list of all students who make a 4.2 average or better. This list appears in local papers and in the student newspaper, the *Alestle*.

decal. A permit allowing students and faculty to park their cars legally on University parking lots.

drop a course. This means a student officially withdraws from a course he had earlier registered for.

elective. A course which counts for credit toward a degree but which is not required.

extra-curricular. That which is not directly a part of a specific course or set of courses.

Final Week. The last week of a quarter in which major exams are given and which often determine a student's grade in a course.

General Studies. Abbreviated G.S., this is a program aimed toward providing a student with an introduction to a variety of fields.

Gob, the. Abbreviation for the General Office Building.

grade-point average (g.p.a.). This is the score determined by dividing the total number of grade points by the total hours of credit.

grade-point system. The letter grade translated into a number. The University uses a five-point system: A = 5 points, B = 4, C = 3, D = 2, and E = 1.

graduate student. A student with a bachelor's degree who is attending school in order to achieve another academic degree.

grant-in-aid. Financial aid to a student. Grants-in-aid do not usually require that a student repay the amount to the giver.

Honors Day. A day held each spring quarter during which outstanding students are publicly recognized.

hour. One hour of class work means 50 minutes of lecture.

hour of credit. This represents work done by a student in a lecture course attended for one hour per week for the period of one quarter.

ID. Abbreviation for identification card.

intramural. Activities pertaining to a single university. Literally, the word means "within the walls."

jud. board. Abbreviation for judicial board which is a committee of selected students who review and decide how to handle violations of University regulations.

make-up quiz. A test given to a student who, for some excusable reason, missed taking the test with the rest of his class.

matriculate. To enroll, especially as a student or candidate for a degree.

mid terms. Exams taken during the middle of the quarter which usually count heavily toward calculating the final grade for a course.

mall. The brick area, highlighted by circular concrete benches, which is between the main buildings of the University.

Muse. The student year book published annually.

number three card. The IBM card issued to students at registration which is used along with the ID card for various activities and privileges.

PB. Abbreviation for the Peck Classroom Building.

preprofessional courses. Courses offered in various professions but which do not lead toward a degree in that profession. Pre-professional students usually take a year or two of course work in a particular profession and then transfer to another school.

President's Report. A brief, annual publication coming from the University president's office which gives an account of University progress and the current state of affairs.

pop quiz. An unannounced, short test.

probation. A trial period in which a student attempts to upgrade his academic record. If he fails, scholastic suspension occurs.

proficiency test. A test taken in lieu of enrolling in and passing a class to receive credit. If a student passes the proficiency test, with a C or better, he receives credit equal to the course credit.

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Quarter. One of four periods of the school year—fall, winter, spring, and summer.

Three quarters make one school year.

quarter break. That period between quarters in which class attendance is recessed.

Quiet Week. Those three days prior to final exam week in which no social activities or meetings may be scheduled. Quiet Week is reserved to study for final exams.

record number. The number assigned to students during registration which identify individual student records while at the University.

registration. The process of being advised, scheduling classes, and paying of fees at the University.

scholarship. A financial grant to a student who has achieved merit.

section. A particular group of students enrolled for a course. There may be many sections scheduled to study the same course given during a quarter.

Security. The University patrol or police system.

seminar. A group of advanced students studying under a professor where each student does individual and original research and all share results through reports and discussion.

SL. Abbreviation for the Science Laboratory Building.

Sou'wester. The student literary quarterly.

Student Senate. The main student government body.

suspension. Refers to suspension from attending the University. A student may be suspended for academic failure or for disciplinary reasons.

syllabus. A summary outline or requirements for a course.

symposium. A meeting at which several speakers deliver short addresses on one topic or on related topics; a meeting where there is a free exchange of ideas.

take-home final. A final exam to which a student may write the answers at his convenience (at home) with the benefit of an open textbook.

thesis. For the student, this means the subject for a composition or essay.

transfer student. A student who comes to the University having previously attended another university.

transcript. The complete record of a student's academic work and achievements.

UC. Abbreviation for University Center building.

unclassified student. A student enrolled in the University but not classified in one of the following categories: graduate, undergraduate—senior, junior, sophomore, freshman.

undergraduate. A student who has not yet achieved his first academic degree.

Union, University Center. Names used in reference to the University Center building.

WSIE. The non commercial FM broadcasting station affiliated with the University's Mass Communications area of study. WSIE provides the community with educational and musical variety programs while offering students direct experience in related fields of radio and television broadcasting.



